

Position, Elevation, Ice Thickness and Bedrock Elevation of
Stations along the Routes in East Queen Maud Land and Enderby
Land, East Antarctica

Compiled by
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I. Introduction

Oversnow traverses on East Antarctica were conducted by the Japanese Antarctic Research Expedition. Compiled in this volume are the data obtained during the oversnow traverses; position, elevation, ice thickness and bedrock elevation of stations along the routes. These data were already published in JARE Data Reports series. This volume compiles all data of the routes for the convenience of reference. Route map is shown in Fig. 1 and information on the routes is given in Table 1.

II. Position along the Routes

Along almost all routes, the marker stakes were installed every 1 km, as the short distance between stakes will be helpful for the next visit. The marker stakes were numbered from the beginning to the end of the routes. These numbered stakes were to be used for snow accumulation measurements.

Navigation data, the distance and the azimuth between neighboring stations, were obtained with a magnetic hand compass and an odometer of a vehicle. By astronomic survey or operating a Doppler satellite positioning system (JMR), the positions of stations were determined from place to place along the routes.

III. Elevation along the Routes

The measurements with barometric altimeters (American Paulin Altimeter MM1) were made every 1 km or 2 km along the routes. The observations with astronomic survey or JMR also gave the data on elevation. These data are much more precise than those by the barometric altimeter, and are considered basic data of elevation. They were obtained, however, only sporadically along the routes, and hence these data were interpolated with the barometric data for the station between the JMR stations.

VI. Ice Thickness along the Routes

The ice thickness was measured using a radio echo sounder equipped on an oversnow vehicle. Used for the measurement before 1974 were a radio echo sounder designed as SPRI (Scott Polar Research Institute) MK II with 35 MHz transmitter and a 3-element Yagi antenna. After 1982, the instrument was an NIPR type consisting of a 60 MHz transmitter and a pair of 3-element Yagi antenna. The electromagnetic wave velocity of 171 m/s was used to calculate the ice thickness.

V. References

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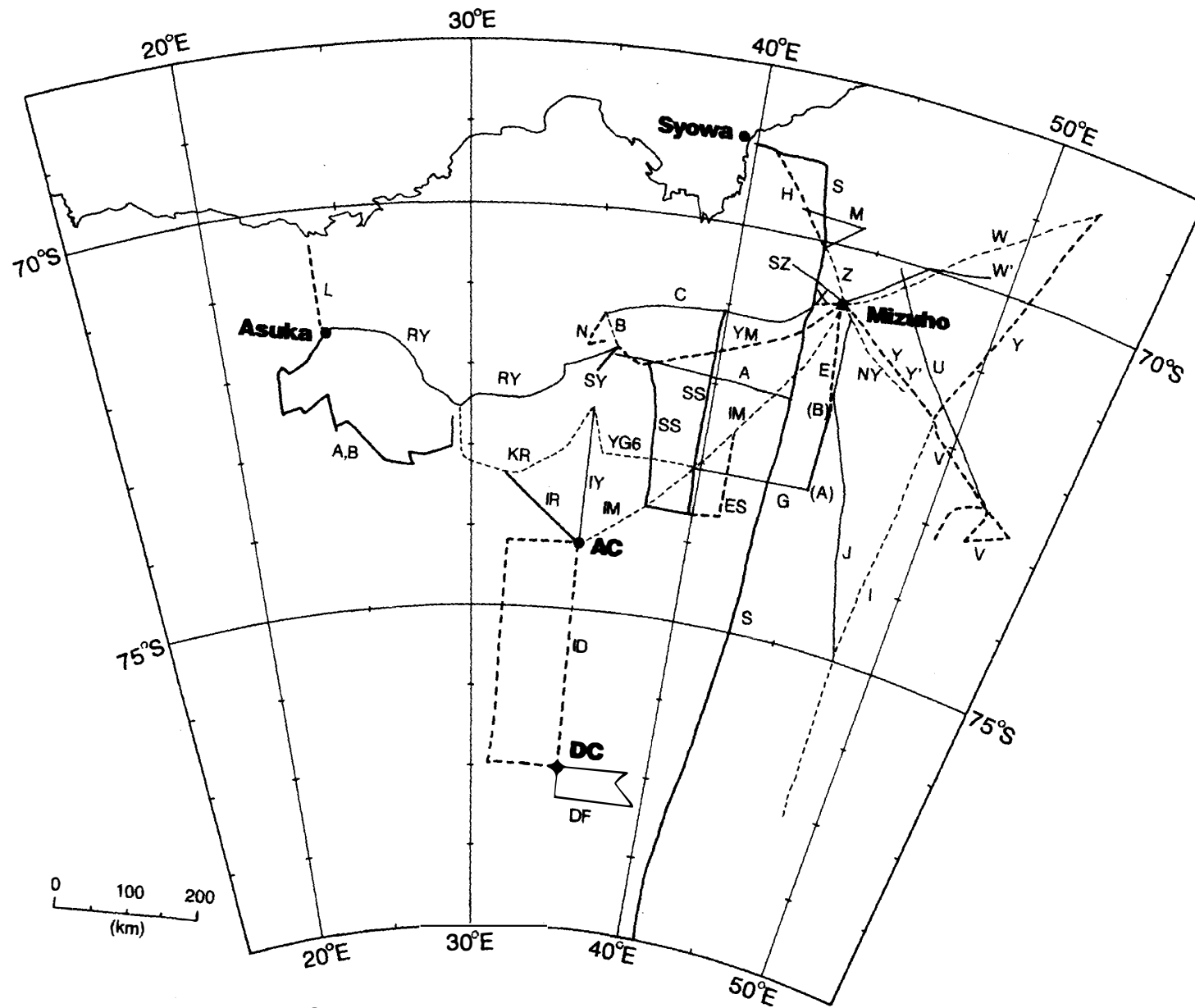


Fig. 1. JARE traverse routes.

Table 1. Intervals of observations.

Route Name	Station	Interval of observations			Interval of stations	References*
		Position	Altitude	Ice thickness		
Route S	16-982	2km	2km	16-192	2km	3, 10
Route M	1-79	2km	2km		2km	5
Route H	3-304	1km	1km	3-304	0.5km	6
Route SZ	1-40	2km	1km	1-40	2km	8
Route Z	1-104	1km	1km	1-104	1km	6
Route X	1-19	2km	4km	4-19	2km	10
Route V	5-300	5km, 10km	5km, 10km		1km	9
	1410-1500	10km	10km		1km	9
Route U	6-348	6km	6km		1km	9
Route W'	5-240	5km	a few		1km	9
Route W	0-55	2km	2km	7-55	2km	10
	200-375	10km	10km	205-375	2km	10
Route Y'	5-210	5km	5km		1km	11
Route Y	5-573	5km	5km	285-535	1km	10
Route NY	1-100	1km	1km	1-94	1km	8, 12
Route J	10-482	10km	10km		1km	11
Route E	1-76	2km	sporadically		2km	12
Route I	10-600	10km	10km		1km	11
Route C	1-149	2km	2km	1-132	2km	10
Route N	0-23	2km	2km		2km	5
Route YM	0-179	1km	1km	2-179	2km	7
Route A	1-162	4km	4km	3-51, 153-158	2km	10
Route ES	1-80	2km	2km		2km	2
Route IM	1-252	1km, 2km	1km, 2km	0-40	2km	2
Route SS	0-235	1km	1km	0-235	2km	7
Route YG6	0-102	1km	1km	0-102	2km	8
Route G	5-165	5km	5km		1km	12
A-point~B-point	5-115	5km	5km		1km	12
Route SY	1-54	1km	1km	1-54	1km	7
Route B	1-48	1km	1km	1-48	1km	10
Route IY	1-95	2km	2km		2km	2
Route KR	1-154	2km	2km	sporadically	2km	4
Route IR	0-70	1km	1km		2km	1
Route ID	1-43	2km	2km		2km	2
	43-409	1km	1km		2km	1
Route DF	1-150	2km	2km		2km	1
Route RY	1-258	1km	2km	5-258	2km	8
Route L	0-121	1km	1km	0-115(0.5km)	1km	8
Route A (& B)	1-246	1km	2km		1km	12
Route (A &) B	1-112	1km	2km		1km	12

*The numbers correspond to the references in this text.

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S 16	69°01'57"	40°02'50"	553	470	83	
S 17	69°01'54"	40°04'	583	501	82	
S 18	69°01'42"	40°07'	609	752	-143	
S 19	69°01'30"	40°10'	634	1129	-495	
S 20	69°01'30"	40°12'	653	1248	-595	
S 21	69°01'36"	40°15'	699	585	114	
S 22	69°01'42"	40°18'	743	817	-74	
S 23	69°01'48"	40°21'	771	785	-14	
S 24	69°01'54"	40°24'	811	715	96	
S 25	69°02'12"	40°27'	844	723	121	
S 26	69°02'18"	40°29'	870	855	15	
S 27	69°02'30"	40°32'	893	1026	-133	
S 28	69°02'42"	40°35'	916	970	-54	
S 29	69°02'48"	40°38'	935	975	-40	
S 30	69°03' 6"	40°40'	961	929	32	
S 31	69°03'18"	40°43'	981	966	15	
S 32	69°03'36"	40°46'	994	1134	-140	
S 33	69°03'54"	40°48'	1014	1120	-106	
S 34	69°04'12"	40°51'	1030	1038	-8	
S 35	69°04'24"	40°54'	1046	1108	-62	
S 36	69°04'48"	40°56'	1064	1069	-5	
S 37	69°04'48"	40°59'	1074	1163	-89	
S 38	69°04'54"	41°02'	1088	1100	-12	
S 39	69°04'48"	41°05'	1099	1197	-98	
S 40	69°04'42"	41°07'	1112	1100	12	
S 41	69°04'36"	41°10'	1124	1091	33	
S 42	69°04'36"	41°13'	1138	1134	4	
S 43	69°04'30"	41°15'	1148	1120	28	
S 44	69°04'18"	41°18'	1164	1228	-64	
S 45	69°04'24"	41°21'	1179	1189	-10	
S 46	69°04'30"	41°24'	1188	1185	3	
S 47	69°04'18"	41°26'	1184	1235	-51	
S 48	69°04'12"	41°29'	1200	1240	-40	
S 49	69°04'12"	41°32'	1208	1206	2	
S 50	69°04'12"	41°35'	1215	1206	9	
S 51	69°04' 6"	41°37'	1217	1291	-74	
S 52	69°04' 6"	41°40'	1227	1209	18	
S 53	69°04' 0"	41°43'	1233	1194	39	
S 54	69°04' 6"	41°46'	1259	1240	19	
S 55	69°04'12"	41°48'	1271	1248	23	
S 56	69°03'42"	41°51'	1274	1262	12	
S 57	69°03'48"	41°54'	1276	1214	62	
S 58	69°04'12"	41°57'	1287	1248	39	
S 59	69°04'24"	41°59'	1307	1317	-10	
S 60	69°04'36"	42°02'	1332	1332		
S 61	69°05' 0"	42°04'	1335	1488	-153	
S 62	69°05'12"	42°07'	1341	1481	-140	
S 63	69°05'18"	42°09'	1348	1436	-88	
S 64	69°05'30"	42°12'	1356	1471	-115	
S 65	69°05'48"	42°15'	1362	1496	-134	

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 I.T.: Ice Thickness
 B.E.: Bedrock Elevation
 【Route S】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S 66	69° 05' 54"	42° 18'	1366	1342	24	
S 67	69° 06' 0"	42° 21'	1363	1231	132	
S 68	69° 06' 12"	42° 23'	1380	1286	94	
S 69	69° 06' 24"	42° 26'	1381	1377	4	
S 70	69° 06' 54"	42° 29'	1388	1428	-40	
S 71	69° 07' 54"	42° 29'	1403	1390	13	
S 72	69° 09' 0"	42° 30'	1409	1416	-7	
S 73	69° 10' 0"	42° 30'	1419	1411	8	
S 74	69° 11' 0"	42° 31'	1422	1411	11	
S 75	69° 12' 6"	42° 32'	1435	1428	7	
S 76	69° 13' 6"	42° 32'	1444	1377	67	
S 77	69° 14' 12"	42° 33'	1451	1479	-28	
S 78	69° 15' 12"	42° 34'	1459	1445	14	
S 79	69° 16' 12"	42° 34'	1468	1436	32	
S 80	69° 17' 18"	42° 35'	1473	1522	-49	
S 81	69° 18' 24"	42° 36'	1476	1351	125	
S 82	69° 19' 24"	42° 36'	1489	1454	35	
S 83	69° 20' 30"	42° 37'	1499	1394	105	
S 84	69° 21' 30"	42° 38'	1518	1334	184	
S 85	69° 22' 30"	42° 38'	1522			
S 86	69° 23' 30"	42° 39'	1526			
S 87	69° 24' 36"	42° 40'	1534			
S 88	69° 25' 36"	42° 41'	1543			
S 89	69° 26' 42"	42° 41'	1551			
S 90	69° 27' 42"	42° 42'	1560	1436	124	
S 91	69° 28' 48"	42° 43'	1569			
S 92	69° 29' 48"	42° 43'	1568			
S 93	69° 30' 54"	42° 44'	1570			
S 94	69° 31' 54"	42° 45'	1579	1460	119	
S 95	69° 32' 48"	42° 46'	1588	1436	152	
S 96	69° 33' 54"	42° 47'	1594	1385	209	
S 97	69° 34' 54"	42° 48'	1605	1382	223	
S 98	69° 36' 0"	42° 48'	1614	1296	318	
S 99	69° 37' 0"	42° 49'	1618			
S100	69° 38' 6"	42° 50'	1630	1368	262	
S101	69° 39' 6"	42° 50'	1631			
S102	69° 40' 6"	42° 51'	1636			
S103	69° 41' 6"	42° 52'	1643			
S104	69° 42' 12"	42° 52'	1651			
S105	69° 43' 12"	42° 53'	1656			
S106	69° 44' 18"	42° 54'	1660	1305	355	
S107	69° 45' 24"	42° 55'	1673	1325	358	
S108	69° 46' 24"	42° 55'	1684	1488	196	
S109	69° 47' 30"	42° 56'	1690			
S110	69° 48' 30"	42° 56'	1696	1224	472	
S111	69° 49' 30"	42° 57'	1724	1103	621	
S112	69° 50' 36"	42° 58'	1736	1284	452	
S113	69° 51' 42"	42° 59'	1747	1334	413	
S114	69° 52' 42"	43° 00'	1754	1305	449	
S115	69° 53' 48"	43° 01'	1758	1094	664	

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【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S116	69°54'48"	43°02'	1763	1151	612	
S117	69°55'54"	43°03'	1774	1206	568	
S118	69°56'54"	43°03'	1816	1265	551	
S119	69°58'0"	43°04'	1833	1488	345	
S120	69°59'0"	43°04'	1854	1582	263	
S121	70°00'6"	43°05'	1850	1531	319	
S122	70°01'6"	43°06'30"	1853	1546	307	
S123	70°02'6"	43°06'	1859	1377	482	
S124	70°03'12"	43°06'	1865	1214	651	
S125	70°04'12"	43°07'	1876	1248	628	
S126	70°05'12"	43°07'	1883	1419	464	
S127	70°06'18"	43°06'	1886	1296	590	
S128	70°07'18"	43°06'	1887	1419	468	
S129	70°08'24"	43°06'	1900			
S130	70°09'30"	43°06'	1900			
S131	70°10'24"	43°06'	1907	1548	359	
S132	70°11'30"	43°06'	1924	1556	368	
S133	70°12'30"	43°06'	1923			
S134	70°13'30"	43°06'	1917			
S135	70°14'36"	43°06'	1909			
S136	70°15'36"	43°06'	1914			
S137	70°16'42"	43°06'	1923			
S138	70°17'42"	43°06'	1924			
S139	70°18'42"	43°06'	1925			
S140	70°19'48"	43°06'	1934			
S141	70°20'54"	43°06'	1944			
S142	70°21'54"	43°06'	1945	1881	64	
S143	70°22'54"	43°06'	1946			
S144	70°24'0"	43°06'	1946			
S145	70°25'0"	43°06'	1944			
S146	70°26'6"	43°06'	1950			
S147	70°27'6"	43°06'	1954			
S148	70°28'6"	43°06'	1952			
S149	70°29'12"	43°06'	1953			
S150	70°30'0"	43°04'	1971	1317	654	
S151	70°31'0"	43°05'	1975			
S152	70°31'54"	43°06'	1978			
S153	70°32'54"	43°05'	1979			
S154	70°34'0"	43°05'	1986			
S155	70°35'0"	43°05'	1992			
S156	70°36'6"	43°06'	1997			
S157	70°37'6"	43°06'	2002	1855	147	
S158	70°38'12"	43°06'	2005	1881	124	
S159	70°39'12"	43°06'	2006			
S160	70°40'12"	43°06'	2008	1419	589	
S161	70°41'12"	43°06'	2012			
S162	70°42'18"	43°06'	2020			
S163	70°43'18"	43°07'	2025			
S164	70°44'18"	43°07'	2034			
S165	70°45'18"	43°07'	2035	2146	-111	

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Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S166	70°46'24"	43°07'	2027	2138	-111	
S167	70°47'24"	43°07'	2027	2138	-111	
S168	70°48'24"	43°07'	2026			
S169	70°49'24"	43°07'	2035	2309	-274	
S170	70°50'38"	43°11'32"	2034	1967	67	
S171	70°51'6"	43°05'	2026			
S172	70°51'36"	43°02'	2040	1903	137	
S173	70°52'12"	43°00'	2034	1903	131	
S174	70°52'48"	42°57'	2018			
S175	70°53'48"	42°56'	2036			
S176	70°54'48"	42°56'	2063			
S177	70°55'48"	42°56'	2064			
S178	70°56'48"	42°56'	2061			
S179	70°57'54"	42°56'	2062			
S180	70°58'54"	42°57'	2075			
S181	70°59'54"	42°57'	2085			
S182	71°00'54"	42°57'	2100			
S183	71°01'54"	42°57'	2133			
S184	71°03'0"	42°57'	2139			
S185	71°04'0"	42°57'	2114	1903	211	
S186	71°05'0"	42°58'	2150			
S187	71°06'0"	42°58'	2158			
S188	71°07'0"	42°58'	2159			
S189	71°08'6"	42°58'	2173			
S190	71°09'6"	42°58'	2180	1989	191	
S191	71°10'6"	42°58'	2183	2009	174	
S192	71°11'12"	42°58'	2195			
S193	71°12'12"	42°59'	2207			
S194	71°13'12"	42°59'	2211			
S195	71°14'12"	42°59'	2208			
S196	71°15'18"	42°59'	2217			
S197	71°16'18"	43°00'	2240			
S198	71°17'18"	43°00'	2251			
S199	71°18'18"	43°00'	2257			
S200	71°19'24"	43°00'	2261			
S201	71°20'24"	43°00'	2260			
S202	71°21'24"	43°00'	2261			
S203	71°22'24"	43°01'	2274			
S204	71°23'30"	43°01'	2294			
S205	71°24'30"	43°01'	2303			
S206	71°25'30"	43°01'	2310			
S207	71°26'30"	43°02'	2312			
S208	71°27'30"	43°02'	2315			
S209	71°28'30"	43°02'	2317			
S210	71°29'36"	43°03'	2332			
S211	71°30'36"	43°03'	2342			
S212	71°31'36"	43°03'	2346			
S213	71°32'36"	43°03'	2356			
S214	71°33'42"	43°03'	2369			
S215	71°34'42"	43°04'	2374			

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Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S216	71°35'42"	43°04'	2377			
S217	71°36'42"	43°04'	2388			
S218	71°37'42"	43°04'	2401			
S219	71°38'42"	43°04'	2403			
S220	71°39'42"	43°04'	2410			
S221	71°40'48"	43°05'	2422			
S222	71°41'48"	43°05'	2433			
S223	71°42'48"	43°05'	2443			
S224	71°43'48"	43°05'	2453			
S225	71°44'48"	43°05'	2462			
S226	71°45'48"	43°06'	2468			
S227	71°46'48"	43°06'	2473			
S228	71°47'48"	43°06'	2485			
S229	71°48'54"	43°06'	2494			
S230	71°49'54"	43°06'	2506			
S231	71°50'54"	43°07'	2511			
S232	71°51'54"	43°07'	2515			
S233	71°53' 0"	43°07'	2522			
S234	71°54' 0"	43°08'	2528			
S235	71°55' 0"	43°08'	2534			
S236	71°56' 0"	43°08'	2550			
S237	71°57' 0"	43°08'	2567			
S238	71°58' 6"	43°08'	2574			
S239	71°59' 6"	43°08'	2580			
S240	72°00'08"	43°09'51"	2591			
S241	72°01' 6"	43°09'				
S242	72°02'12"	43°08'	2607			
S243	72°03'12"	43°09'				
S244	72°04'12"	43°09'	2617			
S245	72°05'12"	43°09'				
S246	72°06'12"	43°09'	2622			
S247	72°07'12"	43°09'				
S248	72°08'12"	43°09'	2626			
S249	72°09'12"	43°09'	2645			
S250	72°10'12"	43°09'	2654			
S251	72°11'12"	43°08'				
S252	72°12'12"	43°08'	2681			
S253	72°13'12"	43°08'				
S254	72°14'12"	43°08'	2708			
S255	72°15'12"	43°08'				
S256	72°16'12"	43°07'	2710			
S257	72°17'30"	43°07'				
S258	72°18'12"	43°07'	2719			
S259	72°19'12"	43°07'				
S260	72°20'18"	43°07'	2727			
S261	72°21'18"	43°07'				
S262	72°22'18"	43°07'	2734			
S263	72°23'18"	43°07'				
S264	72°24'18"	43°07'	2721			
S265	72°25'18"	43°07'	2760			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route S】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S266	72°26'18"	43°07'	2780			
S267	72°27'18"	43°07'				
S268	72°28'24"	43°06'	2790			
S269	72°29'24"	43°06'				
S270	72°30'24"	43°06'	2802			
S271	72°31'05"	43°06'				
S272	72°32'30"	43°06'	2805			
S273	72°33'30"	43°05'				
S274	72°34'30"	43°05'	2804			
S275	72°35'36"	43°06'				
S276	72°36'36"	43°05'	2822			
S277	72°37'42"	43°05'				
S278	72°38'42"	43°05'	2837			
S279	72°39'42"	43°04'				
S280	72°40'48"	43°04'	2841			
S281	72°41'54"	43°04'	2450			
S282	72°42'54"	43°04'	2860			
S283	72°43'54"	43°03'				
S284	72°44'54"	43°03'	2887			
S285	72°46' 0"	43°03'				
S286	72°47' 0"	43°02'	2921			
S287	72°48' 6"	43°02'				
S288	72°49' 6"	43°02'	2936			
S289	72°50' 6"	43°02'				
S290	72°51' 6"	43°02'	2942			
S291	72°52' 6"	43°01'				
S292	72°53' 6"	43°01'	2938			
S293	72°54'12"	43°01'				
S294	72°55'18"	43°01'	2967			
S295	72°56'18"	43°00'				
S296	72°57'18"	43°00'	2966			
S297	72°58'18"	43°00'				
S298	72°59'18"	43°00'	2979			
S299	73°00'24"	42°59'				
S300	73°01'30"	42°59'	3003			
S301	73°02'30"	42°59'				
S302	73°03'30"	42°59'	3018			
S303	73°04'30"	42°58'				
S304	73°05'36"	42°57'	3038			
S305	73°06'36"	42°57'				
S306	73°07'42"	42°57'	3042			
S307	73°08'42"	42°57'				
S308	73°09'42"	42°57'	3046			
S309	73°10'48"	42°57'				
S310	73°11'54"	42°57'	3054			
S311	73°12'08"	42°57'				
S312	73°13'54"	42°57'	3054			
S313	73°14'54"	42°57'				
S314	73°15'54"	42°56'	3059			
S315	73°17' 0"	42°56'				

【 R o u t e S 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S316	73°18' 0"	42°56'	3069			
S317	73°19' 0"	42°56'				
S318	73°20' 6"	42°56'	3087			
S319	73°21' 6"	42°56'				
S320	73°22'12"	42°55'	3094			
S321	73°23'12"	42°55'				
S322	73°24'12"	42°55'	3120			
S323	73°25'18"	42°55'	3126			
S324	73°26'18"	42°55'	3143			
S325	73°27'18"	42°55'				
S326	73°28'18"	42°55'	3150			
S327	73°29'24"	42°55'				
S328	73°30'24"	42°55'	3163			
S329	73°31'30"	42°55'				
S330	73°32'30"	42°55'	3177			
S331	73°33'30"	42°55'				
S332	73°34'30"	42°55'	3180			
S333	73°35'36"	42°55'				
S334	73°36'36"	42°55'	3194			
S335	73°37'42"	42°55'				
S336	73°38'42"	42°55'	3204			
S337	73°39'42"	42°55'				
S338	73°40'48"	42°55'	3210			
S339	73°41'48"	42°55'				
S340	73°42'48"	42°55'	3220			
S341	73°43'54"	42°55'				
S342	73°44'54"	42°54'	3228			
S343	73°46' 0"	42°54'				
S344	73°47' 0"	42°54'	3247			
S345	73°48' 0"	42°54'				
S346	73°49' 6"	42°54'	3263			
S347	73°50' 6"	42°54'				
S348	73°51' 6"	42°54'	3278			
S349	73°52'12"	42°54'				
S350	73°53'18"	42°53'	3275			
S351	73°54'02"	42°53'				
S352	73°55'18"	42°53'	3284			
S353	73°56'18"	42°53'				
S354	73°57'18"	42°53'	3294			
S355	73°58'24"	42°53'				
S356	73°59'24"	42°53'	3314			
S357	74°00'24"	42°53'				
S358	74°01'30"	42°53'	3332			
S359	74°02'36"	42°53'				
S360	74°03'36"	42°53'	3333			
S361	74°04'36"	42°53'				
S362	74°05'36"	42°53'	3335			
S363	74°06'42"	42°53'				
S364	74°07'42"	42°53'	3351			
S365	74°08'48"	42°52'				

【Route S】 S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S366	74°09'48"	42°52'	3353			
S367	74°10'48"	42°52'	3360			
S368	74°11'54"	42°52'	3362			
S369	74°12'54"	42°52'				
S370	74°13'54"	42°52'	3371			
S371	74°15' 0"	42°52'				
S372	74°16' 0"	42°52'	3387			
S373	74°17' 6"	42°52'				
S374	74°18' 6"	42°52'	3399			
S375	74°19' 6"	42°52'				
S376	74°20'12"	42°52'	3407			
S377	74°21'12"	42°52'				
S378	74°22'18"	42°52'	3416			
S379	74°23'18"	42°52'				
S380	74°24'18"	42°52'	3423			
S381	74°25'24"	42°52'				
S382	74°26'24"	42°52'	3437			
S383	74°27'30"	42°51'				
S384	74°28'42"	42°51'	3437			
S385	74°29'36"	42°51'				
S386	74°30'36"	42°51'	3434			
S387	74°31'36"	42°51'				
S388	74°32'42"	42°51'	3447			
S389	74°33'42"	42°51'	3450			
S390	74°34'48"	42°51'	3450			
S391	74°35'08"	42°51'00"				
S392	74°36'54"	42°51'	3457			
S393	74°37'54"	42°51'				
S394	74°38'54"	42°51'	3461			
S395	74°39'54"	42°51'				
S396	74°41' 0"	42°51'	3475			
S397	74°42' 0"	42°51'				
S398	74°43' 6"	42°51'	3480			
S399	74°44'12"	42°51'				
S400	74°45'12"	42°51'	3478			
S401	74°46'12"	42°51'				
S402	74°47'18"	42°51'	3483			
S403	74°48'18"	42°51'				
S404	74°49'18"	42°51'	3483			
S405	74°50'24"	42°51'				
S406	74°51'24"	42°51'	3495			
S407	74°52'30"	42°51'				
S408	74°53'30"	42°51'	3500			
S409	74°54'30"	42°51'				
S410	74°55'36"	42°51'	3499			
S411	74°56'36"	42°51'				
S412	74°57'42"	42°51'	3505			
S413	74°58'42"	42°50'				
S414	74°59'42"	42°50'	3519			
S415	75°00'42"	42°49'				

【 R o u t e S 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S416	75° 01 ' 48 "	42° 49 '	3513			
S417	75° 02 ' 48 "	42° 48 '				
S418	75° 03 ' 48 "	42° 48 '	3514			
S419	75° 04 ' 54 "	42° 47 '				
S420	75° 05 ' 54 "	42° 47 '	3529			
S421	75° 06 ' 54 "	42° 46 '				
S422	75° 07 ' 54 "	42° 46 '	3526			
S423	75° 08 ' 54 "	42° 46 '				
S424	75° 10 ' 0 "	42° 44 '	3537			
S425	75° 11 ' 0 "	42° 44 '				
S426	75° 12 ' 0 "	42° 43 '	3543			
S427	75° 13 ' 6 "	42° 43 '				
S428	75° 14 ' 6 "	42° 42 '	3546			
S429	75° 15 ' 6 "	42° 42 '				
S430	75° 16 ' 12 "	42° 41 '	3547			
S431	75° 17 ' 02 "	42° 41 '				
S432	75° 18 ' 12 "	42° 40 '	3548			
S433	75° 19 ' 18 "	42° 39 '				
S434	75° 20 ' 18 "	42° 39 '	3544			
S435	75° 21 ' 18 "	42° 38 '				
S436	75° 22 ' 24 "	42° 38 '	3548			
S437	75° 23 ' 24 "	42° 38 '				
S438	75° 24 ' 24 "	42° 37 '	3549			
S439	75° 25 ' 24 "	42° 36 '				
S440	75° 26 ' 30 "	42° 36 '	3556			
S441	75° 27 ' 30 "	42° 35 '				
S442	75° 28 ' 36 "	42° 35 '	3555			
S443	75° 29 ' 36 "	42° 35 '				
S444	75° 30 ' 36 "	42° 34 '	3556			
S445	75° 31 ' 42 "	42° 34 '				
S446	75° 32 ' 42 "	42° 34 '	3559			
S447	75° 33 ' 42 "	42° 33 '				
S448	75° 34 ' 48 "	42° 33 '	3569			
S449	75° 35 ' 48 "	42° 33 '				
S450	75° 36 ' 54 "	42° 32 '	3584			
S451	75° 37 ' 54 "	42° 31 '				
S452	75° 39 ' 0 "	42° 31 '	3591			
S453	75° 40 ' 0 "	42° 30 '				
S454	75° 41 ' 0 "	42° 29 '	3594			
S455	75° 42 ' 0 "	42° 29 '				
S456	75° 43 ' 6 "	42° 28 '	3591			
S457	75° 44 ' 6 "	42° 28 '				
S458	75° 45 ' 6 "	42° 28 '	3594			
S459	75° 46 ' 12 "	42° 28 '				
S460	75° 47 ' 12 "	42° 28 '	3604			
S461	75° 48 ' 12 "	42° 28 '				
S462	75° 49 ' 12 "	42° 28 '	3612			
S463	75° 50 ' 18 "	42° 27 '				
S464	75° 51 ' 18 "	42° 26 '	3613			
S465	75° 52 ' 18 "	42° 26 '				

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S466	75° 53' 24"	42° 25'	3614			
S467	75° 54' 24"	42° 25'	3616			
S468	75° 55' 24"	42° 24'	3616			
S469	75° 56' 24"	42° 24'				
S470	75° 57' 24"	42° 23'	3613			
S471	75° 58' 24"	42° 22' 00"				
S472	75° 59' 24"	42° 22'	3617			
S473	76° 00' 30"	42° 21'				
S474	76° 01' 36"	42° 21'	3622			
S475	76° 02' 36"	42° 20'				
S476	76° 03' 42"	42° 19'	3624			
S477	76° 04' 42"	42° 19'				
S478	76° 05' 42"	42° 19'	3629			
S479	76° 06' 42"	42° 18'				
S480	76° 07' 42"	42° 18'	3635			
S481	76° 08' 48"	42° 17'				
S482	76° 09' 48"	42° 17'	3639			
S483	76° 10' 48"	42° 16'				
S484	76° 11' 54"	42° 16'	3642			
S485	76° 12' 54"	42° 16'				
S486	76° 13' 54"	42° 15'	3632			
S487	76° 14' 54"	42° 14'				
S488	76° 16' 0"	42° 14'	3637			
S489	76° 17' 0"	42° 14'				
S490	76° 18' 0"	42° 13'	3642			
S491	76° 19' 0"	42° 13'				
S492	76° 20' 6"	42° 12'	3640			
S493	76° 21' 6"	42° 11'				
S494	76° 22' 12"	42° 11'	3645			
S495	76° 23' 6"	42° 10'				
S496	76° 24' 12"	42° 09'	3646			
S497	76° 25' 12"	42° 09'				
S498	76° 26' 12"	42° 08'	3652			
S499	76° 27' 18"	42° 08'				
S500	76° 28' 18"	42° 07'	3652			
S501	76° 29' 24"	42° 07'				
S502	76° 30' 24"	42° 06'	3648			
S503	76° 31' 24"	42° 05'				
S504	76° 32' 24"	42° 04'	3653			
S505	76° 33' 24"	42° 04'				
S506	76° 34' 24"	42° 03'	3655			
S507	76° 35' 24"	42° 02'				
S508	76° 36' 24"	42° 02'	3672			
S509	76° 37' 24"	42° 01'				
S510	76° 38' 24"	42° 00'	3672			
S511	76° 39' 05"	41° 59' 00"				
S512	76° 40' 30"	41° 59'	3675			
S513	76° 41' 30"	41° 58'				
S514	76° 42' 30"	41° 58'	3673			
S515	76° 43' 30"	41° 57'				

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S516	76°44'30"	41°56'	3674			
S517	76°45'36"	41°56'				
S518	76°46'42"	41°55'	3675			
S519	76°47'42"	41°55'				
S520	76°48'42"	41°55'	3673			
S521	76°49'42"	41°54'				
S522	76°50'48"	41°54'	3683			
S523	76°51'42"	41°53'				
S524	76°52'48"	41°52'	3694			
S525	76°53'48"	41°51'				
S526	76°54'54"	41°51'	3691			
S527	76°55'54"	41°50'				
S528	76°56'54"	41°49'	3694			
S529	76°58' 0"	41°48'				
S530	76°59' 0"	41°48'	3696			
S531	77°00' 6"	41°47'				
S532	77°01' 0"	41°46'	3699			
S533	77°02'12"	41°46'				
S534	77°03'12"	41°45'	3702			
S535	77°04'12"	41°44'				
S536	77°05'12"	41°44'	3698			
S537	77°06'18"	41°43'				
S538	77°07'24"	41°42'	3693			
S539	77°08'12"	41°41'				
S540	77°09'18"	41°41'	3710			
S541	77°10'18"	41°40'				
S542	77°11'18"	41°39'	3709			
S543	77°12'18"	41°38'	3707			
S544	77°13'18"	41°38'	3704			
S545	77°14'24"	41°37'				
S546	77°15'24"	41°36'	3708			
S547	77°16'30"	41°36'				
S548	77°17'30"	41°35'	3712			
S549	77°18'36"	41°35'				
S550	77°19'42"	41°34'	3714			
S551	77°20'07"	41°33'00"				
S552	77°21'48"	41°33'	3713			
S553	77°22'48"	41°32'				
S554	77°23'48"	41°32'	3714			
S555	77°24'54"	41°32'				
S556	77°26' 0"	41°32'	3717			
S557	77°27' 0"	41°31'				
S558	77°28' 6"	41°31'	3715			
S559	77°29' 6"	41°31'				
S560	77°30'12"	41°30'	3714			
S561	77°31'12"	41°29'				
S562	77°32'12"	41°28'	3712			
S563	77°33'18"	41°27'				
S564	77°34'24"	41°27'	3712			
S565	77°35'24"	41°26'				

【 R o u t e S 】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S566	77°36'30"	41°25'	3709			
S567	77°37'30"	41°24'				
S568	77°38'30"	41°24'	3711			
S569	77°39'30"	41°22'				
S570	77°40'36"	41°21'	3710			
S571	77°41'36"	41°20'				
S572	77°42'36"	41°19'	3708			
S573	77°43'36"	41°18'				
S574	77°44'36"	41°17'	3707			
S575	77°45'36"	41°17'				
S576	77°46'36"	41°16'	3702			
S577	77°47'36"	41°16'				
S578	77°48'36"	41°16'	3704			
S579	77°49'42"	41°15'				
S580	77°50'42"	41°15'	3705			
S581	77°51'42"	41°15'				
S582	77°52'42"	41°15'	3704			
S583	77°53'42"	41°14'				
S584	77°54'42"	41°13'	3702			
S585	77°55'42"	41°13'				
S586	77°56'42"	41°12'	3698			
S587	77°57'42"	41°12'				
S588	77°58'36"	41°11'	3693			
S589	77°59'36"	41°11'				
S590	78°00'36"	41°10'	3694			
S591	78°01'06"	41°10'				
S592	78°02'36"	41°09'	3685			
S593	78°03'36"	41°08'	3684			
S594	78°04'36"	41°06'	3683			
S595	78°05'36"	41°05'				
S596	78°06'36"	41°04'	3681			
S597	78°07'36"	41°03'				
S598	78°08'36"	41°02'	3682			
S599	78°09'36"	41°01'				
S600	78°10'36"	41°01'	3679			
S601	78°11'30"	41°00'				
S602	78°12'30"	40°59'	3677			
S603	78°13'30"	40°59'				
S604	78°14'30"	40°58'	3679			
S605	78°15'30"	40°57'				
S606	78°16'30"	40°56'	3674			
S607	78°17'36"	40°55'				
S608	78°18'36"	40°55'	3670			
S609	78°19'36"	40°54'				
S610	78°20'36"	40°53'	3670			
S611	78°21'36"	40°53'				
S612	78°22'36"	40°53'	3668			
S613	78°23'36"	40°52'				
S614	78°24'42"	40°51'	3667			
S615	78°25'42"	40°51'				

【 R o u t e S 】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S616	78°26'42"	40°50'	3665			
S617	78°27'48"	40°50'				
S618	78°28'48"	40°49'	3662			
S619	78°29'54"	40°49'				
S620	78°30'54"	40°48'	3659			
S621	78°31'0"	40°48'				
S622	78°33'0"	40°48'	3653			
S623	78°34'6"	40°48'				
S624	78°35'6"	40°47'	3650			
S625	78°36'6"	40°47'				
S626	78°37'6"	40°46'	3649			
S627	78°38'0"	40°45'				
S628	78°39'0"	40°44'	3650			
S629	78°40'0"	40°44'				
S630	78°41'0"	40°44'	3654			
S631	78°42'01"	40°43'				
S632	78°43'6"	40°42'	3648			
S633	78°44'6"	40°41'				
S634	78°45'12"	40°40'	3647			
S635	78°46'12"	40°40'				
S636	78°47'12"	40°40'	3647			
S637	78°48'12"	40°40'				
S638	78°49'12"	40°39'	3639			
S639	78°50'18"	40°39'				
S640	78°51'18"	40°39'	3629			
S641	78°52'18"	40°39'				
S642	78°53'24"	40°39'	3628			
S643	78°54'24"	40°38'				
S644	78°55'24"	40°38'	3622			
S645	78°56'24"	40°38'				
S646	78°57'24"	40°38'	3613			
S647	78°58'24"	40°37'				
S648	78°59'30"	40°37'	3617			
S649	79°00'30"	40°36'				
S650	79°01'30"	40°35'	3619			
S651	79°02'30"	40°35'				
S652	79°03'30"	40°34'	3616			
S653	79°04'36"	40°34'				
S654	79°05'36"	40°33'	3618			
S655	79°06'42"	40°33'				
S656	79°07'42"	40°32'	3613			
S657	79°08'42"	40°32'				
S658	79°09'42"	40°32'	3609			
S659	79°10'48"	40°32'				
S660	79°11'48"	40°31'	3613			
S661	79°12'48"	40°31'				
S662	79°13'54"	40°31'	3618			
S663	79°14'48"	40°31'	3624			
S664	79°16'42"	40°30'	3619			
S665	79°18'36"	40°31'	3615			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route S】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S666	79°20'30"	40°31'	3621			
S667	79°22'30"	40°32'	3616			
S668	79°24'24"	40°32'	3614			
S669	79°26'18"	40°32'	3609			
S670	79°28'02"	40°33'	3599			
S671	79°30' 6"	40°33'	3603			
S672	79°32' 0"	40°33'	3609			
S673	79°33'54"	40°34'	3604			
S674	79°35'48"	40°34'	3592			
S675	79°37'48"	40°34'	3584			
S676	79°39'42"	40°35'	3584			
S677	79°41'36"	40°35'	3583			
S678	79°44' 0"	40°36'	3582			
S679	79°45'24"	40°36'	3581			
S680	79°47'24"	40°36'	3579			
S681	79°49'18"	40°37'	3576			
S682	79°51'18"	40°37'	3574			
S683	79°53'18"	40°38'	3574			
S684	79°55'12"	40°38'	3569			
S685	79°57'12"	40°38'	3570			
S686	79°59' 6"	40°39'	3568			
S687	80°01' 6"	40°39'	3563			
S688	80°05' 6"	40°39'	3562			
S689	80°05' 6"	40°39'	3557			
S690	80°07' 6"	40°39'	3559			
S691	80°09' 0"	40°39'	3554			
S692	80°11' 0"	40°38'	3558			
S693	80°13' 0"	40°38'	3561			
S694	80°15' 0"	40°38'	3564			
S695	80°17' 0"	40°38'	3571			
S696	80°19' 0"	40°38'	3553			
S697	80°21' 0"	40°38'	3553			
S698	80°23' 0"	40°38'	3539			
S699	80°24'54"	40°38'	3545			
S700	80°26'54"	40°38'	3545			
S701	80°28'54"	40°38'	3544			
S702	80°30'54"	40°38'	3538			
S703	80°32'54"	40°37'	3535			
S704	80°34'54"	40°37'	3530			
S705	80°36'54"	40°37'	3532			
S706	80°38'54"	40°37'	3526			
S707	80°40'48"	40°37'	3518			
S708	80°42'48"	40°37'	3517			
S709	80°44'48"	40°37'	3518			
S710	80°46'48"	40°37'	3515			
S711	80°48'48"	40°37'	3505			
S712	80°50'48"	40°36'	3497			
S713	80°52'48"	40°36'	3487			
S714	80°54'42"	40°36'	3490			
S715	80°56'42"	40°36'	3488			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S716	80°58'42"	40°36'	3486			
S717	81°00'42"	40°36'	3481			
S718	81°02'42"	40°36'	3471			
S719	81°04'42"	40°36'	3467			
S720	81°06'42"	40°36'	3466			
S721	81°08'42"	40°36'	3467			
S722	81°10'42"	40°36'	3466			
S723	81°12'48"	40°36'	3468			
S724	81°14'48"	40°36'	3467			
S725	81°16'48"	40°36'	3461			
S726	81°18'48"	40°36'	3457			
S727	81°20'48"	40°36'	3460			
S728	81°22'48"	40°36'	3459			
S729	81°24'48"	40°36'	3457			
S730	81°26'54"	40°36'	3463			
S731	81°28'54"	40°36'	3449			
S732	81°31'0"	40°36'	3446			
S733	81°33'0"	40°36'	3440			
S734	81°35'6"	40°37'	3436			
S735	81°37'6"	40°37'	3432			
S736	81°39'6"	40°37'	3429			
S737	81°41'12"	40°37'	3420			
S738	81°43'12"	40°37'	3416			
S739	81°45'18"	40°37'	3417			
S740	81°47'18"	40°37'	3413			
S741	81°49'6"	40°37'	3406			
S742	81°51'0"	40°37'	3407			
S743	81°52'48"	40°37'	3401			
S744	81°54'36"	40°37'	3391			
S745	81°56'24"	40°37'	3394			
S746	81°58'18"	40°37'	3402			
S747	82°00'6"	40°37'	3407			
S748	82°02'6"	40°37'	3404			
S749	82°04'6"	40°37'	3411			
S750	82°06'01"	40°36'	3412			
S751	82°08'6"	40°36'	3402			
S752	82°10'6"	40°36'	3399			
S753	82°12'6"	40°36'	3402			
S754	82°14'0"	40°36'	3404			
S755	82°16'0"	40°35'	3407			
S756	82°18'0"	40°35'	3405			
S757	82°20'0"	40°35'	3404			
S758	82°22'0"	40°35'	3399			
S759	82°24'0"	40°35'	3402			
S760	82°26'0"	40°34'	3397			
S761	82°28'0"	40°34'	3399			
S762	82°30'6"	40°34'	3392			
S763	82°32'6"	40°34'	3391			
S764	82°34'6"	40°34'	3384			
S765	82°36'6"	40°33'	3369			

【Route S】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S766	82°38'12"	40°33'	3371			
S767	82°40'12"	40°33'	3379			
S768	82°42'12"	40°33'	3373			
S769	82°44'12"	40°33'	3372			
S770	82°46'12"	40°32'	3374			
S771	82°48'18"	40°32'	3370			
S772	82°50'18"	40°32'	3370			
S773	82°52'18"	40°32'	3372			
S774	82°54'18"	40°32'	3368			
S775	82°56'24"	40°31'	3368			
S776	82°58'24"	40°31'	3368			
S777	83°00'24"	40°31'	3362			
S778	83°02'30"	40°31'	3353			
S779	83°04'30"	40°31'	3362			
S780	83°06'36"	40°32'	3363			
S781	83°08'42"	40°32'	3361			
S782	83°10'42"	40°32'	3356			
S783	83°12'48"	40°32'	3353			
S784	83°14'54"	40°32'	3351			
S785	83°16'54"	40°33'	3349			
S786	83°19' 0"	40°33'	3352			
S787	83°21' 6"	40°33'	3348			
S788	83°23' 6"	40°33'	3343			
S789	83°25'12"	40°33'	3337			
S790	83°27'03"	40°34'	3317			
S791	83°29'18"	40°34'	3313			
S792	83°31'24"	40°34'	3312			
S793	83°33'24"	40°34'	3307			
S794	83°35'30"	40°34'	3306			
S795	83°37'30"	40°35'	3300			
S796	83°39'36"	40°35'	3299			
S797	83°41'36"	40°35'	3299			
S798	83°43'42"	40°35'	3298			
S799	83°45'42"	40°35'	3292			
S800	83°47'48"	40°36'	3298			
S801	83°49'48"	40°36'	3296			
S802	83°51'48"	40°36'	3290			
S803	83°53'54"	40°36'	3288			
S804	83°55'54"	40°36'	3294			
S805	83°57'54"	40°37'	3298			
S806	84°00' 0"	40°37'	3298			
S807	84°02' 0"	40°37'	3291			
S808	84°04' 0"	40°37'	3291			
S809	84°06' 6"	40°37'	3292			
S810	84°08'12"	40°36'	3288			
S811	84°10'12"	40°36'	3290			
S812	84°12'12"	40°36'	3290			
S813	84°14'18"	40°36'	3282			
S814	84°16'24"	40°36'	3276			
S815	84°18'24"	40°35'	3271			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S816	84°20'24"	40°35'	3271			
S817	84°22'30"	40°35'	3263			
S818	84°24'36"	40°35'	3260			
S819	84°26'36"	40°35'	3257			
S820	84°28'36"	40°34'	3257			
S821	84°30'42"	40°34'	3253			
S822	84°32'48"	40°34'	3249			
S823	84°34'48"	40°34'	3248			
S824	84°36'48"	40°34'	3245			
S825	84°38'54"	40°33'	3249			
S826	84°41' 0"	40°33'	3254			
S827	84°43' 0"	40°33'	3257			
S828	84°45' 0"	40°33'	3253			
S829	84°47' 6"	40°33'	3248			
S830	84°49'02"	40°32'00"	3237			
S831	84°51'12"	40°32'	3234			
S832	84°53'12"	40°32'	3220			
S833	84°55'12"	40°32'	3207			
S834	84°57'12"	40°32'	3197			
S835	84°59'18"	40°31'	3191			
S836	85°01'18"	40°31'	3194			
S837	85°03'18"	40°31'	3194			
S838	85°05'18"	40°30'	3197			
S839	85°07'24"	40°29'	3195			
S840	85°09'24"	40°28'	3191			
S841	85°11'24"	40°27'	3187			
S842	85°13'24"	40°26'	3190			
S843	85°15'30"	40°25'	3189			
S844	85°17'30"	40°24'	3188			
S845	85°19'30"	40°23'	3188			
S846	85°21'30"	40°22'	3188			
S847	85°23'36"	40°21'	3186			
S848	85°25'36"	40°20'	3184			
S849	85°27'42"	40°19'	3180			
S850	85°29'48"	40°18'	3169			
S851	85°31'54"	40°17'	3166			
S852	85°34' 0"	40°16'	3163			
S853	85°36' 6"	40°15'	3157			
S854	85°38'12"	40°13'	3155			
S855	85°40'24"	40°12'	3154			
S856	85°42'30"	40°11'	3154			
S857	85°44'36"	40°10'	3152			
S858	85°46'42"	40°09'	3149			
S859	85°48'48"	40°08'	3147			
S860	85°50'54"	40°07'	3148			
S861	85°52'54"	40°06'	3147			
S862	85°54'54"	40°05'	3142			
S863	85°56'54"	40°04'	3137			
S864	85°59' 0"	40°03'	3135			
S865	86°01' 0"	40°02'	3132			

【 R o u t e S 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S866	86° 03' 0"	40° 01'	3122			
S867	86° 05' 0"	40° 00'	3116			
S868	86° 07' 6"	39° 59'	3107			
S869	86° 09' 12"	39° 58'	3105			
S870	86° 11' 07"	39° 58' 00"	3102			
S871	86° 13' 24"	39° 57'	3109			
S872	86° 15' 30"	39° 56'	3107			
S873	86° 17' 30"	39° 55'	3103			
S874	86° 19' 36"	39° 55'	3090			
S875	86° 21' 42"	39° 54'	3080			
S876	86° 23' 48"	39° 53'	3076			
S877	86° 25' 54"	39° 52'	3079			
S878	86° 28' 0"	39° 52'	3079			
S879	86° 30' 6"	39° 52'	3072			
S880	86° 32' 18"	39° 50'	3065			
S881	86° 34' 24"	39° 49'	3064			
S882	86° 36' 36"	39° 48'	3058			
S883	86° 38' 42"	39° 48'	3044			
S884	86° 40' 48"	39° 47'	3033			
S885	86° 43' 0"	39° 46'	3030			
S886	86° 45' 6"	39° 45'	3028			
S887	86° 47' 12"	39° 45'	3027			
S888	86° 49' 24"	39° 44'	3016			
S889	86° 51' 30"	39° 43'	3005			
S890	86° 53' 42"	39° 42'	2995			
S891	86° 55' 48"	39° 42'	2994			
S892	86° 57' 54"	39° 41'	2980			
S893	87° 00' 0"	39° 40'	2981			
S894	87° 02' 6"	39° 39'	2974			
S895	87° 04' 12"	39° 38'	2955			
S896	87° 06' 18"	39° 38'	2952			
S897	87° 08' 24"	39° 37'	2945			
S898	87° 10' 24"	39° 40'	2945			
S899	87° 12' 18"	39° 42'	2946			
S900	87° 14' 18"	39° 45'	2953			
S901	87° 16' 18"	39° 47'	2946			
S902	87° 18' 18"	39° 50'	2933			
S903	87° 20' 12"	39° 52'	2933			
S904	87° 22' 12"	39° 55'	2944			
S905	87° 24' 12"	39° 57'	2939			
S906	87° 26' 12"	40° 00'	2944			
S907	87° 28' 6"	40° 02'	2945			
S908	87° 30' 6"	40° 05'	2942			
S909	87° 32' 6"	40° 07'	2938			
S910	87° 34' 02"	40° 10' 00"	2916			
S911	87° 36' 12"	40° 12'	2909			
S912	87° 38' 12"	40° 15'	2920			
S913	87° 40' 18"	40° 17'	2932			
S914	87° 42' 18"	40° 20'	2926			
S915	87° 44' 18"	40° 23'	2910			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S916	87°46'24"	40°25'	2904			
S917	87°48'24"	40°28'	2901			
S918	87°50'24"	40°30'	2897			
S919	87°52'30"	40°33'	2899			
S920	87°54'30"	40°35'	2913			
S921	87°56'30"	40°38'	2906			
S922	87°58'30"	40°40'	2894			
S923	88°00'30"	40°43'	2873			
S924	88°02'24"	40°45'	2866			
S925	88°04'24"	40°48'	2859			
S926	88°06'24"	40°51'	2855			
S927	88°08'24"	40°53'	2859			
S928	88°10'24"	40°54'	2859			
S292	88°12'30"	40°54'	2868			
S930	88°14'30"	40°54'	2857			
S931	88°16'30"	40°55'	2859			
S932	88°18'36"	40°56'	2867			
S933	88°20'36"	40°56'	2874			
S934	88°22'42"	40°56'	2863			
S935	88°24'42"	40°57'	2856			
S936	88°26'42"	40°58'	2841			
S937	88°28'48"	40°58'	2814			
S938	88°30'48"	40°58'	2819			
S939	88°32'48"	40°59'	2815			
S940	88°34'48"	41°00'	2807			
S941	88°36'48"	41°00'	2818			
S942	88°38'48"	41°00'	2820			
S943	88°40'48"	41°01'	2827			
S944	88°42'48"	41°02'	2829			
S945	88°44'54"	41°02'	2832			
S946	88°46'54"	41°02'	2823			
S947	88°48'54"	41°03'	2807			
S948	88°50'54"	41°04'	2807			
S949	88°52'54"	41°04'	2810			
S950	88°54'09"	41°04'00"	2867			
S951	88°56'54"	41°05'	2791			
S952	88°58'54"	41°06'	2792			
S953	89°00'54"	41°06'	2792			
S954	89°02'48"	41°06'	2802			
S955	89°04'48"	41°07'	2811			
S956	89°06'48"	41°08'	2811			
S957	89°08'48"	41°08'	2816			
S958	89°10'48"	41°12'	2823			
S959	89°12'48"	41°15'	2832			
S960	89°14'48"	41°19'	2818			
S961	89°16'48"	41°23'	2818			
S962	89°18'48"	41°26'	2823			
S963	89°20'48"	41°30'	2813			
S964	89°22'54"	41°34'	2810			
S965	89°24'54"	41°37'	2818			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S966	89°27' 0"	41°41'	2823			
S967	89°29'00"	41°45'	2831			
S968	89°31' 6"	41°48'	2814			
S969	89°33' 6"	41°52'	2813			
S970	89°35'12"	41°56'	2819			
S971	89°37'12"	41°59'	2826			
S972	89°39'18"	42°03'	2819			
S973	89°41'18"	42°07'	2809			
S974	89°43'24"	42°10'	2811			
S975	89°45'24"	42°14'	2801			
S976	89°47'24"	42°15'	2806			
S977	89°49'24"	42°15'	2803			
S978	89°51'24"	42°15'	2796			
S979	89°53'24"	42°15'	2799			
S980	89°55'24"	42°15'	2804			
S981	89°57'24"	42°15'	2807			
S982	89°59'54"		2800			South Pole

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e M 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
M 1	70° 07' 30"	43° 24' 30"	1992			
M 2	70° 06' 30"	43° 26'	1997			
M 3	70° 05' 30"	43° 27' 30"	2004			
M 4	70° 04' 30"	43° 29' 30"	2010			
M 5	70° 03' 30"	43° 30' 30"	2021			
M 6	70° 02' 30"	43° 32'	2028			
M 7	70° 02'	43° 34'	2043			
M 8	70° 01'	43° 35'	2039			
M 9	70° 00'	43° 37'	2045			
M 10	69° 59'	43° 38' 30"	2050			
M 11	69° 58'	43° 40' 30"	2058			
M 12	69° 57'	43° 41' 30"	2060			
M 13	69° 56'	43° 43'	2055			
M 14	69° 55' 30"	43° 45'	2062			
M 15	69° 54' 30"	43° 46'	2066			
M 16	69° 53' 30"	43° 47' 30"	2070			
M 17	69° 52' 30"	43° 49'	2087			
M 18	69° 51' 30"	43° 51'	2099			
M 19	69° 50' 30"	43° 52' 30"	2110			
M 20	69° 49' 30"	43° 54'	2117			
M 21	69° 48' 30"	43° 55' 30"	2118			
M 22	69° 48'	43° 57' 30"	2127			
M 23	69° 47'	43° 59'	2122			
M 24	69° 46'	44° 01'	2124			
M 25	69° 45' 30"	44° 03'	2119			
M 26	69° 44' 30"	44° 04' 30"	2115			
M 27	69° 43' 30"	44° 06' 30"	2109			
M 28	69° 43'	44° 08' 30"	2103			
M 29	69° 42' 30"	44° 11'	2125			
M 30	69° 42'	44° 13'	2151			
Peak A	69° 40' 30"	44° 11' 30"	2168			
M 31	69° 41' 30"	44° 14'	2152			
M 32	69° 41' 30"	44° 17'	2154			
M 33	69° 40' 30"	44° 17' 30"	2143			
M 34	69° 40'	44° 15'	2103			
M 35	69° 39'	44° 12' 30"	2075			
M 36	69° 38' 30"	44° 10' 30"	2071			
M 37	69° 38'	44° 08'	2066			
Peak B	69° 36' 30"	44° 08' 30"	2100			
M 38	69° 38'	44° 05'	2049			
M 39	69° 38'	44° 02'	2022			
M 40	69° 38'	43° 59'	2015			
M 41	69° 38'	43° 56'	2026			
M 42	69° 38'	43° 53'	2032			
M 43	69° 37' 30"	43° 50' 30"	2030			
M 44	69° 37' 30"	43° 47' 30"	2085			
M 45	69° 37' 30"	43° 44' 30"	2017			
M 46	69° 37' 30"	43° 41' 30"	1999			
M 47	69° 37' 30"	43° 38' 30"	1967			
M 48	69° 37' 30"	43° 35' 30"	1937			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e M 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
M 49	69°37'30"	43°33'	1901			
M 50	69°37'30"	43°30'30"	1893			
M 51	69°38'	43°28'	1866			
M 52	69°38'	43°25'	1825			
M 53	69°38'30"	43°23'	1825			
M 54	69°38'13"	43°19'30"	1787			
M 55	69°38'	43°18'	1784			
M 56	69°38'	43°15'	1780			
M 57	69°38'	43°12'30"	1765			
M 58	69°37'30"	43°09'30"	1751			
M 59	69°38'	43°06'	1731			
M 60	69°37'30"	43°03'	1737			
M 61	69°37'30"	42°59'30"	1739			
M 62	69°37'30"	42°55'30"	1740			
M 63	69°37'	42°53'	1713			
M 64	69°37'	42°50'	1705			
M 65	69°37'	42°46'	1700			
M 66	69°36'30"	42°43'30"	1696			
M 67	69°36'30"	42°40'30"	1672			
M 68	69°36'30"	42°38'	1650			
M 69	69°36'30"	42°35'	1635			
M 70	69°36'	42°31'30"	1613			
M 71	69°36'	42°29'	1613			
M 72	69°35'30"	42°26'	1600			
M 73	69°35'30"	42°23'	1591			
M 74	69°36'	42°19'	1589			
M 75	69°36'	42°16'	1582			
M 76	69°36'	42°13'30"	1578			
M 77	69°36'30"	42°10'30"	1571			
M 78	69°37'	42°07'30"	1555			
M 79	69°37'	42°04'30"	1557			
H184	69°36'12"	42°02'48"	1546			

S.E.:Surface Elevation
I.T.:Ice Thickness(Z-scope)
B.E.:Bedrock Elevation

【Route H】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
H 3				936		(969)←A-scope
H 9				1173		(1196)
H 15				1015		(1032)
H 21				909		(950)
H 27	69° 0' 1"	40° 50' 55"	1071	1028	43	(1004)
H 35				975		(998)
H 42				909		(907)
H 48				1028		(1038)
H 54	69° 09' 18"	40° 58' 54"	1143	1133	10	(1124)
H 60				1054		(1082)
H 62	69° 10' 18"	41° 01' 18"	1168	1133	35	(1119)
H 64				1041		(1040)
H 66				1041		(1030)
H 68	69° 11' 30"	41° 04' 18"	1176	1028	148	(1023)
H 70	69° 11' 55"	41° 05' 15"	1186	1160	26	(1170)
H 72	69° 12' 18"	41° 06' 12"	1187	988	199	(1045)
H 74				856		(879)
H 76				962		(1016)
H 78				962		(973)
H 80	69° 13' 54"	41° 09' 54"	1224	1120	104	(1155)
H 82				1094		(1135)
H 84	69° 14' 40"	41° 11' 54"	1247	1199	48	(1202)
H 88				1212		(1244)
H 90				1160		(1174)
H 92				1173		(1177)
H 94				1265		(1271)
H 96				1160		(1172)
H 98				1160		(1163)
H100	69° 17' 48"	41° 20' 18"	1298	1080	218	(1117)
H102				1199		(1171)
H104				1291		(1274)
H106	69° 19' 00"	41° 23' 30"	1321	1436	-115	(1433)
H108				1384		(1402)
H110	69° 19' 54"	41° 25' 48"	1318	1344	-26	(1311)
H112				1278		(0)
H114				1252		(1401)
H116	69° 21' 06"	41° 29' 06"	1341	1384	-43	(1404)
H118				1384		(1402)
H120	69° 22' 00"	41° 31' 30"	1360	1370	-10	(1353)
H122				1331		(1335)
H124	69° 22' 44"	41° 33' 26"	1373	1318	55	(1407)
H126				1397		(1376)
H128				1344		(1320)
H130				1318		(1355)
H132				1331		(1345)
H134	69° 25' 12"	41° 37' 42"	1387	1344	43	(1341)
H136	69° 25' 42"	41° 38' 30"	1392	1318	74	(1327)
H138				1331		(1292)
H140	69° 26' 36"	41° 40' 06"	1408	1304	104	(1291)
H142				1291		

S.E.:Surface Elevation
 I.T.:Ice Thickness(Z-scope)
 B.E.:Bedrock Elevation
 【 R o u t e H 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
H144				1331		(1345)
H146	69°28'00"	41°42'48"	1425	1344	81	(1340)
H148				1384		(1430)
H150	69°29'00"	41°44'48"	1440	1370	70	
H152				1318		(1342)
H154				1291		(1316)
H156	69°30'12"	41°48'00"	1468	1384	84	(1439)
H158				1568		
H160	69°31'00"	41°50'06"	1486	1608	-122	
H162				1648		
H164	69°31'54"	41°52'18"	1483	1568	-85	
H166	69°32'20"	41°53'25"	1492	1594	-102	
H168	69°32'42"	41°54'24"	1487			
H170						
H172	69°33'36"	41°56'24"	1508			
H174	69°34'08"	41°57'18"	1524			
H176	69°34'30"	41°58'24"	1529			
H178	69°34'57"	41°59'32"	1536			
H180	69°35'18"	42°00'36"	1540			
H182	69°35'42"	42°01'42"	1546			
H184	69°36'12"	42°02'48"	1546			
H186	69°36'36"	42°03'48"	1556			
H188						
H190						
H192	69°38'00"	42°07'00"	1562			
H194	69°38'22"	42°08'02"	1560			
H196	69°38'54"	42°09'06"	1571			
H198	69°39'16"	42°10'07"	1572			
H200	69°39'42"	42°11'06"	1586			
H202						
H204	69°40'36"	42°13'12"	1596			
H206						
H208						
H210						
H212	69°42'18"	42°17'12"	1615			
H214						
H216	69°43'06"	42°19'48"	1625			
H218						
H220						
H222	69°44'18"	42°23'12"	1641			
H224						
H226	69°45'12"	42°25'12"	1655			
H228						
H230	69°46'12"	42°27'06"	1659			
H232						
H234	69°47'06"	42°29'06"	1670			
H236						
H238	69°48'00"	42°31'12"	1687			
H240	69°48'24"	42°32'06"	1692			
H242				1621		

【Route H】

S.E.:Surface Elevation
I.T.:Ice Thickness(Z-scope)
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
H244				1568		
H246				1515		(1559)
H248				1608		(1677)
H250	69°50'36"	42°37'00"	1732	1739	-7	(1691)
H252						
H254	69°51'30"	42°39'24"	1740			
H256	69°51'49"	42°40'43"	1742			
H258	69°52'12"	42°41'54"	1742			
H260	69°52'36"	42°43'06"	1748			
H263						
H264	69°53'24"	42°45'24"	1759			
H266	69°53'49"	42°46'31"	1769			
H268	69°54'12"	42°47'36"	1769	1621	148	
H270	69°54'36"	42°48'42"	1780	1528	252	(1525)
H272	69°55'09"	42°49'45"	1789	1423	366	(1427)
H274	69°55'36"	42°51'00"	1502	1502	296	(1502)
H276				1555		(1576)
H278	69°56'24"	42°53'12"	1806	1476	330	
H280	69°56'54"	42°54'12"	1811	1476	335	(1487)
H282				1423		(1404)
H284				1489		(1480)
H286	69°58'12"	42°56'48"	1840			(1426)
H288				1489		
H290	69°59'18"	42°58'30"	1865	1449	416	(1423)
H292				1489		
H294	70°00'18"	43°00'24"	1873			
H296						
H298	70°01'06"	43°02'06"	1883			
H300				1489		(1489)
H301				1476		
H302	70°01'14"	43°05'24"	1896			
H304	70°01'12"	43°06'48"	1898	1397	501	(1409)
S122	70°01'15"	43°09'24"	1910	1502	408	(1495)

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S Z 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SZ 1	70°36'37"	44°08'05"	2197	2083	114	
			2192			
SZ 2	70°36'43"	44°04'19"	2189			*
			2189			
SZ 3	70°36'20"	44°01'13"	2187	2080	107	
			2185			
SZ 4	70°36'00"	43°58'05"	2181			
			2177			
SZ 5	70°35'39"	43°54'58"	2176			
			2171	2260	-89	
SZ 6	70°35'19"	43°51'50"	2169	2260	-91	
			2167			
SZ 7	70°34'59"	43°48'42"	2162			
			2158			
SZ 8	70°34'38"	43°45'35"	2154			
			2152			
SZ 9	70°34'18"	43°42'26"	2151			
			2143			
SZ 10	70°33'58"	43°39'19"	2140			
			2135			
SZ 11	70°33'39"	43°36'10"	2135			
			2133			
SZ 12	70°33'21"	43°33'00"	2133			
			2133			
SZ 13	70°33'01"	43°29'52"	2128			
			2119			
SZ 14	70°32'41"	43°26'44"	2107			
			2093			
SZ 15	70°32'22"	43°23'36"	2078			
			2076			
SZ 16	70°32'01"	43°20'29"	2072			*
			2069			
SZ 17	70°31'43"	43°17'20"	2061	2100	-39	
			2059	2040	19	
SZ 18	70°31'20"	43°14'17"	2059	2040	19	
			2053	2040	13	
SZ 19	70°30'58"	43°11'12"	2042	2047	-5	
			2040	1998	42	
SZ 20	70°30'33"	43°08'11"	2036	1840	196	*
			2027	1920	107	
SZ 21	70°30'12"	43°05'05"	2013	1780	233	
			2002	1800	202	
SZ 22	70°29'52"	43°01'58"	1993	1920	73	
			1991	1920	71	
SZ 23	70°29'29"	42°58'54"	1988	1920	68	
			1983	1980	3	
SZ 24	70°29'08"	42°55'47"	1983	1980	3	
			1985	2000	-15	
SZ 25	70°28'46"	42°52'42"	1983	2100	-117	
			1979	2120	-141	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S Z 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SZ 26	70°28'26"	42°49'36"	1971	2100	-129	
			1967	2108	-141	
SZ 27	70°28'05"	42°46'29"	1962			
			1959			
SZ 28	70°27'44"	42°43'23"	1954			
			1947			
SZ 29	70°27'23"	42°40'17"	1946			
			1944			
SZ 30	70°27'01"	42°37'13"	1934	1840	94	
			1962	1840	86	
SZ 31	70°26'40"	42°34'07"	1916	1704	212	*
			1912	1609	303	
SZ 32	70°26'18"	42°30'45"	1916	1612	304	
			1907	1580	327	
SZ 33	70°25'53"	42°28'29"	1905	1641	264	
			1902	1600	302	
SZ 34	70°25'48"	42°26'24"	1890	1453	437	
			1873	1296	577	
SZ 35	70°25'23"	42°23'07"	1838	1244	594	
			1806	1352	454	
SZ 36	70°25'10"	42°19'39"	1804	1532	272	
			1817	1629	188	
SZ 37	70°24'46"	42°16'22"	1819	1635	184	
			1819			
SZ 38	70°24'23"	42°13'03"	1820			
			1824			
SZ 39	70°23'58"	42°09'46"	1823	1980	-157	
			1815	1967	-152	
SZ 40	70°23'34"	42°06'28"	1811	1978	-167	(G16)*

S.E.:Surface Elevation
 I.T.:Ice Thickness(Z-scope)
 B.E.:Bedrock Elevation
 【 R o u t e Z 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
S122	70°01'15"	43°09'24"	1910	1502	408	(1495) ← A-scope
Z 1	70°01'42"	43°10'12"	1919	1476	443	(1428)
Z 2	70°02'09"	43°11'05"	1926	1423	503	
Z 3	70°02'36"	43°11'54"	1936	1384	552	(1398)
Z 4	70°03'06"	43°12'48"	1946	1423	523	(1407)
Z 5	70°03'30"	43°13'36"	1954	1357	597	(1367)
Z 6	70°03'54"	43°14'30"	1962	1542	420	(1501)
Z 7	70°04'18"	43°15'24"	1964			
Z 8	70°04'41"	43°16'23"	1971	1528	443	
Z 9	70°05'06"	43°17'12"	1971	1489	482	(1507)
Z 10	70°05'36"	43°18'00"	1973	1449	524	(1452)
Z 11	70°06'00"	43°18'48"	1978	1555	423	
Z 12	70°06'30"	43°19'42"	1983			
Z 13	70°06'54"	43°20'30"	1981			
Z 14	70°07'24"	43°21'18"	1981	1489	492	(1507)
Z 15	70°07'48"	43°22'06"	1983	1449	534	(1472)
Z 16	70°08'18"	43°23'00"	1988	1436	552	(1427)
Z 17	70°08'42"	43°23'48"	1996	1489	507	(1493)
Z 18	70°09'12"	43°24'36"	2006	1476	530	(1488)
Z 19	70°09'34"	43°25'27"	2010			
Z 20	70°10'06"	43°26'12"	2013			
Z 21	70°10'30"	43°26'54"	2014			
Z 22	70°11'00"	43°27'42"	2016			
Z 23	70°11'30"	43°28'24"	2020			
Z 24	70°11'54"	43°29'06"	2026			
Z 25	70°12'24"	43°29'48"	2031			(1672)
Z 26	70°12'54"	43°30'33"	2036			(1677)
Z 27	70°13'18"	43°31'18"	2041			
Z 28	70°13'48"	43°32'06"	2048			(1623)
Z 29	70°14'12"	43°32'53"	2052			
Z 30	70°14'42"	43°33'42"	2056			(1665)
Z 31	70°15'06"	43°34'33"	2059			(1679)
Z 32	70°15'36"	43°35'18"	2062			(1629)
Z 33	70°16'00"	43°36'03"	2064			(1622)
Z 34	70°16'30"	43°36'48"	2068			
Z 35	70°16'55"	43°37'32"	2070			
Z 36	70°17'24"	43°38'18"	2076			
Z 37	70°17'47"	43°39'02"	2074			
Z 38	70°18'12"	43°39'42"	2080			
Z 39	70°18'42"	43°40'30"	2084			
Z 40	70°19'12"	43°41'18"	2083			
Z 41	70°19'36"	43°42'00"	2080			
Z 42	70°20'06"	43°42'48"	2079			
Z 44	70°20'42"	43°44'06"	2082			
Z 46	70°21'06"	43°45'00"	2087			
Z 48	70°21'36"	43°45'48"	2087			
Z 50	70°22'00"	43°46'36"	2085			
Z 52	70°22'24"	43°47'24"	2084			
Z 54	70°22'54"	43°48'12"	2085			
Z 56	70°23'24"	43°49'00"	2087			

S.E.:Surface Elevation
I.T.:Ice Thickness(Z-scope)
B.E.:Bedrock Elevation

【 R o u t e Z 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
Z 58	70°23'48"	43°49'48"	2093			
Z 60	70°24'18"	43°50'30"	2100			
Z 62	70°24'42"	43°51'18"	2107			
Z 64	70°25'06"	43°52'06"	2115			
Z 66	70°25'32"	43°52'51"	2133			
Z 68	70°26'00"	43°53'42"	2136			
Z 70	70°26'25"	43°54'29"	2139			
Z 71	70°26'54"	43°55'18"	2143			
Z 72	70°27'18"	43°56'06"	2146			
Z 73	70°27'48"	43°57'00"	2150			
Z 74	70°28'12"	43°57'48"	2163			
Z 75	70°28'40"	43°58'34"	2159			
Z 76	70°29'06"	43°59'24"	2159			
Z 77	70°29'30"	44°00'18"	2159			
Z 78	70°30'00"	44°01'06"	2160			
Z 79	70°30'24"	44°02'00"	2161			
Z 80	70°30'48"	44°02'54"	2161			
Z 81	70°31'12"	44°23'48"	2162			
Z 82	70°31'42"	44°04'42"	2161			
Z 83	70°32'06"	44°05'30"	2161			
Z 84	70°32'36"	44°06'18"	2161			
Z 85	70°33'02"	44°07'05"	2161			
Z 86	70°33'30"	44°07'42"	2163			
Z 87	70°34'00"	44°08'18"	2165			
Z 88	70°34'30"	44°08'54"	2169			
Z 89	70°35'00"	44°09'36"	2172			
Z 90	70°35'27"	44°10'12"	2176			
Z 91	70°35'54"	44°10'54"	2179	1871	308	
Z 92	70°36'20"	44°11'31"	2181			
Z 93	70°36'48"	44°12'12"	2183			
Z 94	70°37'16"	44°12'53"	2186	1963	223	
Z 95	70°37'42"	44°13'30"	2188	1950	238	(2023)
Z 96	70°38'12"	44°14'06"	2192	1976	216	(2001)
Z 97	70°38'36"	44°14'42"	2195	1963	232	(1991)
Z 98	70°39'06"	44°15'24"	2199			(2020)
Z 99	70°39'30"	44°16'00"	2198			
Z100	70°40'00"	44°16'42"	2199			
Z101	70°40'32"	44°17'21"	2202			
Z102	70°41'00"	44°17'54"	2208			
Z104	70°41'54"	44°19'06"	2226	1963	263	

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e X 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
X 1	70° 42 ' 6 "	44° 14 ' 12 "	2143			
X 2	70° 42 ' 12 "	44° 10 ' 54 "	2138			
X 3	70° 42 ' 30 "	44° 07 ' 6 "				
X 4	70° 42 ' 48 "	44° 03 ' 36 "	2116	1146	970	
X 5	70° 43 ' 6 "	44° 00 ' 0 "				
X 6	70° 43 ' 24 "	43° 56 ' 18 "	2111	1454	657	
X 7	70° 43 ' 42 "	43° 52 ' 36 "				
X 8	70° 44 ' 0 "	43° 49 ' 0 "	2097	2009	88	
X 9	70° 44 ' 24 "	43° 45 ' 24 "				
X 10	70° 44 ' 42 "	43° 41 ' 42 "	2094	1351	743	
X 11	70° 45 ' 12 "	43° 38 ' 12 "				
X 12	70° 45 ' 42 "	43° 34 ' 42 "	2087	1385	702	
X 13	70° 46 ' 0 "	43° 31 ' 0 "				
X 14	70° 46 ' 24 "	43° 27 ' 24 "	2069	1231	838	
X 15	70° 46 ' 48 "	43° 23 ' 48 "				
X 16	70° 47 ' 6 "	43° 20 ' 6 "	2064	1129	935	
X 17	70° 47 ' 24 "	43° 16 ' 24 "				
X 18	70° 47 ' 48 "	43° 12 ' 48 "	2055	2138	-83	
X 19	70° 48 ' 36 "	43° 10 ' 6 "				
S169	70° 49 ' 24 "	43° 07 ' 24 "	2035	2309	-274	

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e V , U , W ' 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
(Y-V Route)						
Y100	71°17'49"	46°16'19"	2584			
Y200	71°48'16"	48°38'55"	2840			
V 5	71°49'42"	48°46'0"	2855			
V 10	71°51'18"	48°52'30"	2864			
V 15	71°53'0"	48°59'6"	2870			
V 20	71°54'30"	49°7'0"	2896			
V 25	71°56'6"	49°14'0"	2916			
V 30	71°57'30"	49°21'6"	2938			
V 35	71°59'12"	49°28'6"	2956			
V 40	72°0'54"	49°34'54"	2972			
V 45	72°2'30"	49°42'0"	2982			
V 50	72°4'0"	49°49'6"	2992			
V 55	72°5'36"	49°56'6"	3010			
V 60	72°7'18"	50°2'36"	3020			
V 65	72°8'54"	50°9'30"	3026			
V 70	72°10'6"	50°16'30"	3033			
V 75	72°11'48"	50°23'18"	3050			
V 80	72°13'18"	50°30'18"	3059			
V 85	72°14'54"	50°37'12"	3066			
V 90	72°16'24"	50°43'54"	3076			
V 95	72°17'54"	50°49'24"	3074			
V100	72°19'24"	50°56'24"	3088			
V105	72°21'0"	51°3'18"	3093			
V110	72°22'36"	51°10'24"	3098			
V115	72°24'12"	51°17'30"	3095			
V120	72°25'48"	51°24'36"	3094			
V125	72°27'0"	51°32'18"	3086			
V130	72°28'36"	51°39'48"	3078			
V135	72°30'6"	51°47'48"	3080			
V140	72°31'42"	51°54'24"	3076			
V142	72°32'18"	51°57'21"	3076			
V150	72°34'24"	52°09'24"	3055			
V160	72°37'12"	52°24'18"	3041			
V170	72°39'48"	52°39'12"	3012			
V180	72°42'24"	52°57'30"	2984			
V190	72°45'12"	53°12'54"	2971			
V200	72°47'54"	53°28'0"	2965			
V210	72°50'12"	53°12'0"	2978			
V220	72°52'12"	52°55'48"	2991			
V230	72°54'30"	52°39'12"	3021			
V240	72°56'48"	52°22'54"	3050			
V250	72°58'36"	52°05'42"	3062			
V260	73°00'36"	51°49'0"	3088			
V270	72°55'30"	51°55'6"	3093			
V280	72°50'54"	52°03'18"	3102			
V290	72°46'12"	52°09'6"	3093			
V300	72°40'36"	52°13'18"	3092			
V142	72°32'18"	51°57'21"	3076			
V1410	72°34'54"	51°42'12"	3080			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route V, U, W'】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
V1420	72°37'30"	51°26'54"	3083			
V1430	72°39'36"	51°10'48"	3102			
V1440	72°41'54"	50°54'48"	3159			
V1450	72°44'18"	50°39'18"	3064			
V1460	72°49'30"	50°41'36"	3058			
V1470	72°54'36"	50°39' 0"	3061			
V1180	72°59'48"	50°37'24"	3085			
V1490	73°04' 0"	50°36'42"	3093			
V1500	73°10'21"	50°35'59"	3092			
(U Route)						
V142	72°32'18"	51°57'21"	3076			
U 6	72°29' 9"	51°50'18"	3075			
U 12	72°27'42"	51°42'48"	3078			
U 18	72°25'24"	51°35'18"	3078			
U 24	72°23' 6"	51°28'18"	3079			
U 30	72°20'24"	51°22'18"	3078			
U 36	72°18' 6"	51°15'18"	3072			
U 42	72°15'42"	51°08'12"	3062			
U 48	72°13'18"	51°01'30"	3050			
U 53	72°11'18"	50°55'36"	3035			
U 60	72°08'30"	50°47'30"	3055			
U 66	72°06' 0"	50°40'42"	3051			
U 72	72°03'42"	50°33'36"	3038			
U 78	72°01'18"	50°26'42"	3023			
U 84	71°59' 0"	50°19'30"	3013			
U 90	71°56'36"	50°12'48"	2999			
U 96	71°54'12"	50°05'54"	2984			
U102	71°51'48"	49°59'18"	2963			
U108	71°49'24"	49°52'24"	2970			
U114	71°47' 6"	49°45'30"	2940			
U120	71°44'48"	49°38'30"	2907			
U126	71°42'30"	49°31'36"	2894			
U132	71°40'12"	49°24'18"	2889			
U138	71°38' 0"	49°17'18"	2873			
U144	71°35'42"	49°10' 6"	2862			
U150	71°33'12"	49°03'30"	2841			
U156	71°31' 0"	48°56'30"	2819			
U162	71°28'36"	48°49'42"	2815			
U168	71°26'18"	48°42'48"	2798			
U174	71°23'48"	48°36'36"	2772			
U180	71°21'36"	48°29'36"	2762			
U186	71°19'30"	48°22'12"	2742			
U192	71°17'18"	48°15'12"	2735			
U198	71°14'48"	48°08'48"	2708			
U204	71°12'24"	48°02'36"	2688			
U210	71°09'54"	47°56' 6"	2678			
U216	71°07'42"	47°49'12"	2672			
U222	71°05'24"	47°42'12"	2663			
U228	71°03' 0"	47°35'36"	2647			
U234	71°00'48"	47°28'42"	2644			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e V , U , W ' 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
U240	70°57'54"	47°24'12"	2638			
U246	70°55'12"	47°19' 6"	2633			
U252	70°52'18"	47°14'30"	2626			
U258	70°49'24"	47°09'42"	2618			
U264	70°46'36"	47°05'12"	2600			
U270	70°43'42"	47°00'36"	2584			
U276	70°40'54"	46°56' 0"	2580			
U282	70°37'54"	46°52'12"	2564			
U288	70°34'48"	46°48'54"	2549			
U294	70°32'12"	46°43'36"	2532			
U300	70°29'24"	46°38'36"	2513			
U306	70°26'42"	46°33' 6"	2507			
U312	70°24' 0"	46°28'12"	2491			
U318	70°21' 6"	46°23'36"	2462			
U324	70°18'18"	46°19' 6"	2456			
U330	70°15'18"	46°15'12"	2462			
U336	70°12'24"	46°10'36"	2449			
U342	70°09'54"	46°05' 0"	2438			
U348	70°06'59"	46°00'37"	2403			
(W' Route)						
Mizuho	70°42'03"	44°17'39"				
W' 5	70°41'30"	44°25' 0"				
W' 10	70°39'54"	44°31'24"	2291			
W' 15	70°38'12"	44°37'30"				
W' 20	70°36'36"	44°43'42"	2291			
W' 25	70°35' 0"	44°49'48"				
W' 30	70°33'24"	44°56' 6"	2321			
W' 35	70°31'48"	45°02'24"				
W' 40	70°30' 6"	45°08'30"				
W' 45	70°28'30"	45°14'36"				
W' 50	70°26'54"	45°20'42"	2361			
W' 55	70°25'12"	45°26'36"				
W' 60	70°23'36"	45°32'42"	2387			
W' 65	70°21'48"	45°38'36"				
W' 70	70°20'12"	45°44'42"	2398			
W' 75	70°18'36"	45°51' 0"				
W' 80	70°16'48"	45°56'42"	2408			
W' 85	70°15' 6"	46°02'42"				
W' 90	70°13'24"	46°08'30"	2423			
W' 95	70°11'42"	46°14'24"				
W'100	70°09'59"	46°20'21"				
W'105	70°08'18"	46°27'54"				
W'110	70°06'36"	46°35'30"				
W'115	70°04'54"	46°43' 6"				
W'120	70°03' 0"	46°50'36"				
W'125	70°01'18"	46°58' 6"				
W'130	69°59'30"	47°05'30"				
W'135	69°57'54"	47°13'18"				
W'140	69°56' 6"	47°20'36"				
W'145	69°54'24"	47°28' 6"				

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e V , U , W ' 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
W'150	69°52'48"	47°35'54"				
W'155	69°51'12"	47°43'36"				
W'160	69°49'24"	47°50'48"				
W'165	69°47'42"	47°58'24"				
W'170	69°45'54"	48°05'42"				
W'175	69°44'12"	48°13'12"				
W'180	69°42'24"	48°20'30"				
W'185	69°40'42"	48°28' 0"				
W'190	69°38'54"	48°35'30"				
W'195	69°37'18"	48°43' 0"				
W'200	69°35'26"	48°50'10"				
W'210	69°39'42"	48°59'24"				
W'220	69°43'54"	49°09'12"				
W'230	69°47'48"	49°20' 0"				
W'240	69°52'12"	49°29'12"				

【Route W】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
W 0	68°36'41"	52°06'02"	2101			
W 1	68°38'24"	52°02'	2061			
W 2	68°39'42"	51°56'	2068			
W 3	68°41'36"	51°48'	2061			
W 4	68°42'6"	51°47'	2067			
W 5	68°42'54"	51°43'	2064			
W 6	68°43'42"	51°41'	2063			
W 7	68°45'6"	51°36'	2051	1693	358	
W 8	68°45'36"	51°34'	2045			
W 9	68°47'12"	51°28'	2032			
W 10	68°47'42"	51°25'	2019			
W 11	68°48'36"	51°23'	2011			
W 12	68°50'0"	51°18'	1982			
W 13	68°51'12"	51°13'	1962	1539	423	
W 14	68°52'6"	51°11'	1959			
W 15	68°53'24"	51°05'	1949			
W 16	68°54'48"	51°00'	1932			
W 17	68°55'42"	50°59'	1939			
W 18	68°56'48"	50°57'	1936			
W 19	68°58'42"	50°51'	1943	1419	524	
W 20	68°59'36"	50°43'	1907	1146	761	
W 21	69°00'12"	50°42'	1906	1317	589	
W 22	69°01'30"	50°39'	1909	1334	575	
W 23	69°02'54"	50°33'	1890	1488	402	
W 24	69°03'35"	50°31'	1885	1590	295	
W 25	69°05'24"	50°25'	1883			
W 26	69°06'0"	50°22'	1881	1881		
W 27	69°07'6"	50°19'	1877	1967	-90	
W 28	69°07'54"	50°18'	1871			
W 29	69°09'24"	50°14'	1856	2095	-239	
W 30	69°11'6"	50°09'	1847	1539	308	
W 31	69°12'42"	50°05'	1858	1881	-23	
W 32	69°14'18"	49°59'	1859	2009	-150	
W 33	69°16'30"	49°53'	1851	2018	-167	
W 34	69°18'6"	49°46'	1864			
W 35	69°19'0"	49°43'	1872	2138	-266	
W 36	69°19'42"	49°41'	1872	2223	-351	
W 37	69°20'54"	49°37'	1868	2009	-141	
W 38	69°21'24"	49°36'	1864			
W 39	69°22'48"	49°30'	1835			
W 40	69°23'18"	49°28'	1840	2245	-405	
W 41	69°25'30"	49°21'	1833	1753	80	
W 42	69°28'18"	49°17'	1887	1753	134	
W 43	69°28'54"	49°13'	1885	2095	-210	
W 44	69°30'48"	49°08'	1880	2160	-280	
W 45	69°31'24"	48°59'	1879	1667	212	
W 46	69°32'30"	48°56'	1897	1419	478	
W 47	69°34'30"	48°47'	1959	2608	-649	
W 48	69°34'54"	48°46'	1967	2736	-769	
W 49	69°36'18"	48°40'	1967	2394	-427	

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【Route W】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
W 50	69° 37' 54"	48° 32'	1999	2288	-289	
W 51	69° 38' 48"	48° 25'	2019	1744	275	
W 52	69° 39' 42"	48° 19'	2060	1881	179	
W 53	69° 40' 0"	48° 15'	2081			
W 54	69° 40' 0"	48° 14'	2083	2245	-162	
W 55	69° 41' 23"	48° 10' 15"	2107	2245	-138	W200
W205	69° 44' 0"	48° 03' 48"	2128	1436	692	
W210	69° 46' 0"	47° 57' 54"	2192	1778	414	
W215	69° 48' 6"	47° 51' 54"	2211			
W220	69° 50' 0"	47° 46' 12"	2248	1710	538	
W225	69° 51' 42"	47° 40' 0"	2255	1283	972	
W230	69° 53' 42"	47° 34' 24"	2254	2095	159	
W235	69° 55' 42"	47° 28' 6"	2277			
W240	69° 57' 42"	47° 22' 6"	2285	2266	19	
W245	69° 59' 42"	47° 16' 12"	2298	2309	-11	
W250	70° 01' 36"	47° 10' 6"	2312			
W255	70° 03' 36"	47° 04' 6"	2316			
W260	70° 05' 30"	46° 58' 6"	2338			
W265	70° 07' 24"	46° 52' 0"	2342			
W270	70° 09' 24"	46° 46' 0"	2339			
W275	70° 11' 18"	46° 39' 48"	2340			
W280	70° 13' 18"	46° 34' 24"	2344			
W285	70° 15' 6"	46° 28' 30"	2342			
W290	70° 17' 0"	46° 22' 42"	2337			
W295	70° 18' 54"	46° 16' 48"	2330			
W300	70° 20' 36"	46° 10' 36"	2322			
W305	70° 22' 24"	46° 04' 48"	2313			
W310	70° 24' 18"	45° 59' 6"	2301			
W315	70° 26' 6"	45° 53' 18"	2288			
W320	70° 28' 02"	45° 47' 15"	2291			
W325	70° 29' 24"	45° 39' 30"	2291			
W330	70° 30' 42"	45° 31' 54"	2287			
W335	70° 32' 0"	45° 24' 12"	2288			
W340	70° 33' 24"	45° 16' 30"	2278			
W345	70° 34' 48"	45° 08' 54"	2265			
W350	70° 36' 0"	45° 01' 12"	2252			
W355	70° 37' 12"	44° 53' 30"	2246			
W360	70° 38' 30"	44° 45' 54"	2223			
W365	70° 39' 48"	44° 38' 12"	2221			
W370	70° 41' 0"	44° 30' 36"	2209	2223	-14	
W375	70° 42' 12"	44° 23' 0"	2199	2266	-67	
Mizuho	70° 42' 6"	44° 17' 30"	2169	2095	74	

【 R o u t e Y ' 】		S.E.:Surface Elevation		I.T.:Ice Thickness		B.E.:Bedrock Elevation	
Mizuho		70°42'03"	44°17'39"	2230			
Y' 5		70°43'54"	44°23'30"	2263			
Y' 10		70°45'48"	44°29' 0"	2288			
Y' 15		70°47'36"	44°34'48"	2306			
Y' 20		70°49'36"	44°40'12"	2328			
Y' 25		70°51'36"	44°45'42"	2341			
Y' 30		70°53'36"	44°51'30"	2364			
Y' 35		70°55'12"	44°58'30"	2392			
Y' 40		70°56'36"	45°04'48"	2413			
Y' 45		70°58'12"	45°11'18"	2428			
Y' 50		70°59'42"	45°17'48"	2447			
Y' 55		71°01'18"	45°24'18"	2464			
Y' 60		71°03' 0"	45°30'24"	2486			
Y' 65		71°04'36"	45°36'48"	2501			
Y' 70		71°06'18"	45°43' 0"	2513			
Y' 75		71°08' 0"	45°49'12"	2527			
Y' 80		71°09'42"	45°54'30"	2539			
Y' 85		71°11'30"	46°00'30"	2551			
Y' 90		71°13'18"	46°06'36"	2572			
Y' 95		71°15' 0"	46°12'48"	2584			
Y'100		71°16'55"	46°18'36"	2596			
Y'105		71°18'18"	46°25'24"	2606			
Y'110		71°19'36"	46°32' 6"	2623			
Y'115		71°21'12"	46°38'42"	2633			
Y'120		71°22'24"	46°45'48"	2646			
Y'125		71°23'54"	46°52'30"	2658			
Y'130		71°25'18"	46°59'18"	2668			
Y'135		71°26'42"	47°06' 6"	2678			
Y'140		71°28'12"	47°12'42"	2696			
Y'145		71°29'36"	47°19'24"	2709			
Y'150		71°31'08"	47°26'00"	2724			
Y'155		71°32'36"	47°33' 0"	2743			
Y'160		71°34' 0"	47°40' 6"	2758			
Y'165		71°35'30"	47°47'12"	2765			
Y'170		71°37' 0"	47°54' 0"	2770			
Y'175		71°38'30"	48°01' 0"	2780			
Y'180		71°39'30"	48°08'54"	2791			
Y'185		71°40'36"	48°16'42"	2830			
Y'190		71°41'42"	48°24'54"	2838			
Y'195		71°42'30"	48°32'36"	2839			
Y'200		71°43'30"	48°40'36"	2870			
Y'205		71°44'24"	48°48'42"	2876			
Y'210		71°45'27"	48°56'36"	2880			
Y200		71°46'13"	48°56'36"	2880			

【 R o u t e Y 】			S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation	
Y 5	70°43'48"	44°24'18"	2202	2117	85	
Y 10	70°45'36"	44°30'12"	2227			
Y 15	70°47'24"	44°37'12"	2249			
Y 20	70°49'12"	44°43'54"	2272			
Y 25	70°51' 0"	44°50'42"	2286			
Y 30	70°52'42"	44°57'12"	2314			
Y 35	70°54'12"	45°04'36"	2342			
Y 40	70°56' 0"	45°11' 6"	2359			
Y 45	70°57'42"	45°17'54"	2372			
Y 50	70°59'18"	45°25' 0"	2395			
Y 55	71°01' 0"	45°31'24"	2416			
Y 60	71°02'36"	45°38' 0"	2438			
Y 65	71°04'30"	45°45'18"	2444			
Y 70	71°06' 0"	45°51'24"	2463			
Y 75	71°07'42"	45°58' 6"	2478			
Y 80	71°09'24"	46°05' 0"	2490			
Y 85	71°11' 6"	46°11'48"	2511			
Y 90	71°12'36"	46°18'36"	2523			
Y 95	71°14'18"	46°25'24"	2535			
Y100	71°15'56"	46°32'10"	2545			
Y105	71°17'30"	46°39'54"	2562			
Y110	71°19' 6"	46°46'24"	2579			
Y115	71°20'24"	46°53'48"	2589			
Y120	71°21'48"	47°01' 6"	2603			
Y125	71°23'24"	47°08'12"	2609			
Y130	71°25' 6"	47°14'54"	2622			
Y135	71°26'48"	47°21'48"	2644			
Y140	71°28'24"	47°29' 6"	2655			
Y145	71°30' 0"	47°35'48"	2675			
Y150	71°31'30"	47°43' 6"	2693			
Y155	71°33' 6"	47°50' 6"	2702			
Y160	71°34'42"	47°57'12"	2707			
Y165	71°36'12"	48°04'12"	2719			
Y170	71°37'24"	48°12' 0"	2720			
Y175	71°39' 0"	48°19'12"	2769			
Y180	71°40'30"	48°26'24"	2777			
Y185	71°41'54"	48°33'48"	2778			
Y190	71°43'24"	48°41' 6"	2809			
Y195	71°44'54"	48°48'18"	2815			
Y200	71°46'13"	48°55'58"	2819			
Y205	71°43'36"	48°58'54"	2813			
Y210	71°41' 6"	49°01'48"	2807			
Y215	71°38'36"	49°04' 6"	2794			
Y220	71°36' 0"	49°06'42"	2792			
Y225	71°33'18"	49°09'24"	2785			
Y230	71°30'42"	49°11'18"	2774			
Y235	71°28'12"	49°13'54"	2764			
Y240	71°25'30"	49°17'12"	2759			
Y245	71°22'54"	49°19'54"	2746			
Y250	71°20'24"	49°23' 6"	2733			
Y255	71°17'48"	49°25'36"	2720			
Y260	71°15' 6"	49°28'12"	2699			
Y265	71°12'30"	49°31'24"	2679			

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e Y 】

Y270	71°10' 0"	49°34'18"	2676		
Y275	71°07'48"	49°39'18"	2672		
Y280	71°05'12"	49°42' 6"	2666		
Y285	71°02'36"	49°44'48"	2648	2009	639
Y290	71°00' 0"	49°47'36"	2635		
Y295	70°57'30"	49°50'24"	2643	1924	719
Y300	70°54'54"	49°52'54"	2629		
Y305	70°52'24"	49°56'30"	2616	2052	564
Y310	70°49'48"	49°59'24"	2620	1710	910
Y315	70°47'18"	50°02'12"	2601	1813	788
Y320	70°44'36"	50°05' 0"	2604	2095	509
Y325	70°42' 0"	50°07'42"	2591	1496	1095
Y330	70°39'30"	50°10'36"	2585		
Y335	70°36'54"	50°13'24"	2577	2480	97
Y340	70°34'12"	50°16'12"	2568		
Y345	70°31'36"	50°19' 0"	2555		
Y350	70°29' 6"	50°21'36"	2541		
Y355	70°26'36"	50°24'36"	2532		
Y360	70°24' 0"	50°27'48"	2527		
Y365	70°21'24"	50°30' 0"	2514		
Y370	70°18'46"	50°32'45"	2503	2266	237
Y375	70°16' 0"	50°34'24"	2491		
Y380	70°13'24"	50°36'18"	2475		
Y385	70°10'48"	50°38'36"	2460		
Y390	70°08'12"	50°40'42"	2433		
Y395	70°05'36"	50°43' 0"	2416		
Y400	70°02'54"	50°44' 6"	2399		
Y405	70°00'18"	50°46'18"	2388	2180	208
Y410	69°57'42"	50°48'24"	2366		
Y415	69°55' 6"	50°50'24"	2356		
Y420	69°52'24"	50°52'30"	2344		
Y425	69°49'48"	50°54'42"	2335		
Y430	69°47' 6"	50°56'48"	2322		
Y435	69°44'30"	50°58'48"	2317		
Y440	69°41'54"	51°00'54"	2306	2138	168
Y445	69°39'18"	51°03' 6"	2293		
Y450	69°36'42"	51°05' 6"	2271		
Y455	69°34' 6"	51°07'12"	2236		
Y460	69°31'24"	51°09'24"	2219		
Y465	69°28'48"	51°11'24"	2208		
Y470	69°26' 6"	51°13'30"	2204		
Y475	69°23'32"	51°15'30"	2181	2032	149
Y480	69°20'54"	51°17'36"	2191		
Y485	69°18'18"	51°19'42"	2168		
Y490	69°15'54"	51°21'36"	2118		
Y495	69°13'18"	51°23'42"	2119		
Y500	69°10'36"	51°25'54"	2126		
Y505	69°08' 0"	51°28' 0"	2126		
Y510	69°05'18"	51°30' 6"	2108	992	1116
Y515	69°02'42"	51°32'30"	2091		
Y520	69°00'18"	51°34'36"	2092		
Y525	68°59'12"	51°41'24"	2107		
Y530	68°58'12"	51°48'24"	2118		

【 R o u t e Y 】				S.E.:Surface Elevation			
				I.T.:Ice Thickness			
				B.E.:Bedrock Elevation			
Y535	68°55'30"	51°49' 6"	2106	1043	1063		
Y540	68°52'54"	51°50'36"	2097				
Y545	68°50'18"	51°52'42"	2099				
Y550	68°47'36"	51°54'12"	2095				
Y555	68°45' 0"	51°57' 0"	2086				
Y560	68°42'24"	51°59'48"	2074				
Y565	68°40'30"	52°01'54"	2061				
Y570	68°37'54"	52°04'48"	2057				
Y573	68°37' 0"	52°05'42"	2052				Sandercock Camp

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route NY】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
NY 1	70°42'17"	44°18'12"	2256			
NY 2	70°42'25"	44°19'04"	2261	2040	221	
NY 3	70°42'34"	44°19'54"				
NY 4	70°42'44"	44°20'52"	2268	2040	228	
NY 5	70°42'54"	44°21'40"				
NY 6	70°43'07"	44°22'35"	2273	2080	193	
NY 7	70°43'17"	44°23'22"				
NY 8	70°43'27"	44°24'09"	2280	2080	200	
NY 9	70°43'39"	44°25'05"				
NY 10	70°43'49"	44°25'53"	2282	2100	182	
NY 11	70°44'00"	44°26'40"				
NY 12	70°44'13"	44°27'32"	2291	2120	171	
NY 13	70°44'25"	44°28'15"				
NY 14	70°44'40"	44°29'07"	2297	2160	137	
NY 15	70°44'52"	44°29'50"				
NY 16	70°45'04"	44°30'32"	2310	2200	110	
NY 17	70°45'17"	44°31'15"				
NY 18	70°45'32"	44°32'04"	2314	2240	74	
NY 19	70°45'46"	44°32'53"				
NY 20	70°45'59"	44°33'35"	2315	2160	155	
NY 21	70°46'12"	44°34'17"				
NY 22	70°46'27"	44°35'06"	2315	2080	235	
NY 23	70°46'43"	44°35'51"				
NY 24	70°46'56"	44°36'33"	2317	2160	157	
NY 25	70°47'08"	44°37'17"				
NY 26	70°47'22"	44°38'08"	2329	2200	129	
NY 27	70°47'34"	44°38'52"				
NY 28	70°47'46"	44°39'35"	2337	2240	97	
NY 29	70°48'00"	44°40'25"				
NY 30	70°48'13"	44°41'08"	2337	2360	-23	
NY 31	70°48'25"	44°41'52"				
NY 32	70°48'40"	44°42'42"	2339	2360	-21	
NY 33	70°48'54"	44°43'33"				
NY 34	70°49'08"	44°44'24"	2344	3325	-981	
NY 35	70°49'22"	44°45'14"				
NY 36	70°49'35"	44°45'57"	2346	2327	19	
NY 37	70°49'49"	44°46'48"				
NY 38	70°50'03"	44°47'41"	2347	2462	-115	
NY 39	70°50'15"	44°48'24"				
NY 40	70°50'27"	44°49'08"	2315			
NY 41	70°50'41"	44°49'59"				
NY 42	70°50'53"	44°50'43"	2354	2493	-139	
NY 43	70°51'07"	44°51'34"				
NY 44	70°51'22"	44°52'25"	2364			
NY 45	70°51'43"	44°53'35"				
NY 46	70°52'05"	44°54'46"	2369			
NY 47	70°52'27"	44°55'56"				
NY 48	70°52'49"	44°57'07"	2381			
NY 49	70°53'10"	44°58'17"				
NY 50	70°53'32"	44°59'28"	2389	2134	255	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e N Y 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
NY 51	70°53'54"	45°00'38"				
NY 52	70°54'16"	45°01'49"	2399	2149	250	
NY 53	70°54'37"	45°03'00"				
NY 54	70°54'59"	45°04'10"	2410	2279	131	
NY 55	70°55'21"	45°05'21"				
NY 56	70°55'43"	45°06'32"	2413			
NY 57	70°56'05"	45°07'42"				
NY 58	70°56'26"	45°08'53"	2417	2388	29	
NY 59	70°56'48"	45°10'04"				
NY 60	70°57'10"	45°11'15"	2418	2493	-75	
NY 61	70°57'32"	45°12'25"				
NY 62	70°57'53"	45°13'36"	2424	2506	-82	
NY 63	70°58'15"	45°14'47"				
NY 64	70°58'37"	45°15'58"	2429	2469	-40	
NY 65	70°58'59"	45°17'09"				
NY 66	70°59'20"	45°18'20"	2438	2448	-10	
NY 67	70°59'42"	45°19'31"				
NY 68	71°00'04"	45°20'42"	2447	2428	19	
NY 69	71°00'26"	45°21'53"				
NY 70	71°00'48"	45°23'04"	2451	2435	16	
NY 71	71°01'09"	45°24'15"				
NY 72	71°01'31"	45°25'26"	2466	2474	-8	
NY 73	71°01'53"	45°26'37"				
NY 74	71°02'15"	45°27'48"	2468	2454	14	
NY 75	71°02'36"	45°28'59"				
NY 76	71°02'58"	45°30'10"	2484	2318	166	
NY 77	71°03'20"	45°31'22"				
NY 78	71°03'42"	45°32'33"	2501			
NY 79	71°04'03"	45°33'44"				
NY 80	71°04'25"	45°34'55"	2499			
NY 81	71°04'47"	45°36'06"				
NY 82	71°05'08"	45°37'18"	2500			
NY 83	71°05'30"	45°38'29"				
NY 84	71°05'52"	45°39'41"	2509			
NY 85	71°06'14"	45°40'52"				
NY 86	71°06'35"	45°42'03"	2516			
NY 87	71°06'27"	45°43'15"				
NY 88	71°07'19"	45°44'26"	2521			
NY 89	71°07'41"	45°45'37"				
NY 90	71°08'02"	45°46'49"	2528			
NY 91	71°08'24"	45°48'00"				
NY 92	71°08'46"	45°49'12"	2551			
NY 93	71°09'08"	45°50'23"				
NY 94	71°09'30"	45°51'35"	2553	2540	13	
NY 95	71°09'51"	45°52'47"				
NY 96	71°10'13"	45°53'58"	2558			
NY 97	71°10'35"	45°55'10"				
NY 98	71°10'56"	45°56'22"	2566			
NY 99	71°11'18"	45°57'33"				
NY100	71°11'39"	45°58'41"	2582			(G15)*

【 R o u t e N Y 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
NY101	71°12'21"	46° 1'11"	2587			
NY102	71°13' 5"	46° 3'38"	2593			
NY103	71°13'33"	46° 6'37"	2597			
NY104	71°14'19"	46° 8'42"	2605			
NY105	71°14'59"	46°11'14"	2612			
NY106	71°15'45"	46°13'42"	2615			
NY107	71°16'22"	46°16'26"	2621			
NY108	71°17' 1"	46°19' 7"	2623			
NY109	71°17'39"	46°21'49"	2629			
NY110	71°18'18"	46°24'24"	2636			
NY111	71°18'55"	46°27' 6"	2642			
NY112	71°19'33"	46°29'51"	2648			
NY113	71°20'11"	46°32'32"	2653			
NY114	71°20'47"	46°35' 7"	2660			
NY115	71°21'14"	46°37'47"	2666			*
NY116	71°21'49"	46°40'25"	2669			
NY117	71°22'24"	46°43'16"	2674			
NY118	71°22' 1"	46°46' 1"	2680			
NY119	71°23'38"	46°48'47"	2689			
NY120	71°24'14"	46°51'34"	2692			
NY121	71°24'45"	46°54'31"	2696			
NY122	71°25'22"	46°57'10"	2699			
NY123	71°26' 1"	46°59'52"	2701			
NY124	71°26'33"	47° 2'35"	2704			
NY125	71°27' 8"	47° 5'21"	2712			
NY126	71°27'43"	47° 8'17"	2717			
NY127	71°28'18"	47°11' 1"	2723			
NY128	71°28'52"	47°13'53"	2731			
NY129	71°29'27"	47°16'45"	2739			
NY130	71°30' 4"	47°19'31"	2747			
NY131	71°30'39"	47°22'21"	2744			
NY132	71°13' 9"	47°24'45"	2764			
NY133	71°31'44"	47°27'37"	2773			
NY134	71°23'18"	47°30'30"	2774			
NY135	71°32'40"	47°34'10"	2770			(G17)*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e J 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
J 10	74°50'24"	47°50'30"	3307			
J 20	74°45' 6"	47°48' 0"	3305			
J 30	74°40' 0"	47°43'42"	3304			
J 40	74°34'54"	47°38'24"	3302			
J 45	74°32'18"	47°37' 0"	3302			
J 50	74°29'42"	47°35'24"	3299			
J 60	74°24'42"	47°29'48"	3290			
J 70	74°19'30"	47°25'42"	3279			
J 80	74°14'24"	47°21'42"	3269			
J 90	74°09'42"	47°13'18"	3260			
J 95	74°07'36"	47°08'12"	3253			
J100	74°05' 0"	47°07'12"	3245			
J110	74°00'30"	46°58'24"	3229			
J120	73°55'42"	46°50'48"	3213			
J130	73°50'42"	46°46' 0"	3200			
J140	73°45'36"	46°40'24"	3186			
J145	73°43' 0"	46°39'30"	3179			
J150	73°40'24"	46°37'42"	3176			
J160	73°35' 6"	46°36'48"	3155			
J170	73°29'48"	46°34'36"	3151			
J180	73°24'48"	46°29'24"	3140			
J190	73°19'30"	46°27'36"	3126			
J200	73°14'18"	46°25'30"	3107			
J210	73°09' 0"	46°24' 0"	3085			
J220	73°03'36"	46°22'12"	3041			
J225	73°01'01"	46°21'30"	3039			
J230	72°58'30"	46°17'54"	3034			
J240	72°53'24"	46°11' 0"	2987			
J250	72°48'18"	46°03'30"	2962			
J260	72°43'12"	45°56'24"	2904			
J270	72°38' 6"	45°49'12"	2886			
J275	72°35'30"	45°46' 0"	2867			
J280	72°33' 0"	45°42'30"	2856			
J290	72°27'54"	45°35'30"	2849			
J300	72°22'48"	45°28'18"	2798			
J310	72°17'36"	45°21'48"	2797			
J318	72°13'24"	45°17'42"	2799			
J320	72°12'24"	45°16'24"	2783			
J330	72°07'18"	45°09' 0"	2741			
J340	72°02'12"	45°01'48"	2697			
J350	71°57' 6"	44°54'54"	2667			
J360	71°52' 0"	44°48' 0"	2637			
J364	71°49'57"	44°45'00"	2613			
J365	71°49'30"	44°44'42"	2611			
J370	71°46'54"	44°44'36"	2603			
J380	71°41'36"	44°44'30"	2565			
J390	71°36'30"	44°44' 0"	2551			
J400	71°31'12"	44°43'54"	2523			
J408	71°27' 0"	44°43'30"	2504			
J420	71°21'48"	44°43'24"	2484			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e J 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
J430	71°16'42"	44°42'42"	2455			
J440	71°11'30"	44°41'24"	2431			
J450	71°06'18"	44°40'36"	2386			
J460	71°01' 0"	44°40'48"	2375			
J470	70°55'54"	44°40'36"	2362			
J480	70°50'42"	44°40'12"	2348			
J482	70°49'36"	44°40'12"	2333			(Y20)

【Route E】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
B-point	72° 5' 55"	44° 58' 35"	2771			*
E 1	72° 4' 52"	44° 57' 52"	2764			
E 2	72° 3' 50"	44° 57' 13"				
E 3	72° 2' 46"	44° 56' 52"	2749			
E 4	72° 1' 42"	44° 56' 42"				
E 5	72° 0' 39"	44° 55' 52"	2741			
E 6	71° 59' 36"	44° 55' 24"				
E 7	71° 58' 32"	44° 55' 6"				
E 8	71° 57' 29"	44° 54' 34"	2720			
E 9	71° 56' 25"	44° 54' 2"				
E 10	71° 55' 21"	44° 53' 49"	2708			
E 11	71° 54' 18"	44° 53' 21"				
E 12	71° 53' 16"	44° 52' 31"				
E 13	71° 52' 12"	44° 52' 0"	2698			
E 14	71° 51' 8"	44° 51' 46"				
E 15	71° 50' 5"	44° 51' 11"	2681			
E 16	71° 49' 2"	44° 50' 43"				
E 17	71° 48' 0"	44° 49' 47"				
E 18	71° 46' 58"	44° 49' 8"	2666			
E 19	71° 45' 54"	44° 48' 33"	2645			*
E 20	71° 44' 52"	44° 47' 43"	2639			
E 21	71° 43' 55"	44° 46' 9"				
E 22	71° 42' 52"	44° 45' 33"				
E 23	71° 41' 48"	44° 45' 18"	2616			
E 24	71° 40' 46"	44° 44' 21"				
E 25	71° 39' 42"	44° 43' 59"	2602			
E 26	71° 38' 38"	44° 43' 44"				
E 27	71° 37' 34"	44° 43' 29"				
E 28	71° 36' 31"	44° 42' 46"	2588			
E 29	71° 35' 28"	44° 42' 10"				
E 30	71° 34' 24"	44° 41' 38"	2578			
E 31	71° 33' 21"	44° 41' 2"				
E 32	71° 32' 17"	44° 40' 37"				
E 33	71° 31' 16"	44° 39' 37"	2572			
E 34	71° 30' 12"	44° 39' 26"				
E 35	71° 29' 8"	44° 38' 57"	2552			
E 36	71° 28' 4"	44° 38' 28"				
E 37	71° 27' 1"	44° 37' 59"				
E 38	71° 25' 57"	44° 37' 24"	2533			*
E 39	71° 24' 52"	44° 36' 39"				
E 40	71° 23' 44"	44° 36' 22"	2515			
E 41	71° 22' 37"	44° 35' 44"				
E 42	71° 21' 31"	44° 35' 6"				
E 43	71° 20' 25"	44° 34' 25"	2509			
E 44	71° 19' 19"	44° 33' 44"				
E 45	71° 18' 12"	44° 33' 16"	2494			
E 46	71° 17' 6"	44° 32' 32"				
E 47	71° 15' 59"	44° 32' 1"				
E 48	71° 14' 52"	44° 31' 34"	2466			
E 49	71° 13' 45"	44° 30' 56"				

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route E】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
E 50	71°12'38"	44°30'25"	2439			*
E 51	71°11'33"	44°29'51"				
E 52	71°10'28"	44°29'1"				
E 53	71°9'23"	44°28'27"	2427			
E 54	71°8'17"	44°27'57"				
E 55	71°7'12"	44°27'20"	2415			
E 56	71°6'6"	44°26'43"				
E 57	71°5'1"	44°26'6"				
E 58	71°3'56"	44°25'26"	2395			
E 59	71°2'50"	44°24'56"				
E 60	71°1'44"	44°24'26"	2374			
E 61	71°0'39"	44°23'46"				
E 62	70°59'34"	44°23'6"	2374			(C)*
E 63	70°58'34"	44°22'20"				
E 64	70°57'33"	44°21'51"				
E 65	70°56'31"	44°21'21"	2366			
E 66	70°55'30"	44°20'52"				
E 67	70°54'29"	44°20'23"				
E 68	70°53'29"	44°19'37"				
E 69	70°52'27"	44°19'15"				
E 70	70°51'26"	44°18'46"	2332			
E 71	70°50'26"	44°18'0"				
E 72	70°49'25"	44°17'28"				
E 73	70°48'23"	44°17'12"				
E 74	70°47'21"	44°16'43"				
E 75	70°46'22"	44°15'54"	2280			
IM 3	70°45'14"	44°15'22"	2265			(JARE25)

【 R o u t e I 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
I 10	71°51'24"	48°53'30"	2890			
I 20	71°56'42"	48°51'24"	2907			
I 30	72°01'54"	48°50' 0"	2917			
I 35	72°04'30"	48°49'48"	2925			
I 40	72°07' 6"	48°49' 6"	2934			
I 50	72°12'24"	48°47'54"	2943			
I 60	72°17'36"	48°46'36"	2968			
I 70	72°22'48"	48°44' 6"	2977			
I 75	72°25'24"	48°42'54"	2988			
I 80	72°28' 0"	48°42'12"	3000			
I 90	72°33' 6"	48°40'24"	3009			
I100	72°38'18"	48°40' 6"	3026			
I110	72°43'24"	48°37' 0"	3040			
I115	72°46' 0"	48°36'42"	3048			
I120	72°48'42"	48°37' 6"	3058			
I130	72°53'54"	48°37'18"	3086			
I140	72°59' 0"	48°38'36"	3105			
I150	73°04'18"	48°36' 6"	3121			
I155	73°06'54"	48°35'42"	3127			
I160	73°09'30"	48°35' 6"	3134			
I170	73°14'48"	48°34'18"	3162			
I180	73°19'54"	48°33'12"	3166			
I190	73°25'12"	48°31'48"	3166			
I195	73°27'48"	48°30'36"	3170			
I200	73°30'24"	48°29'48"	3176			
I210	73°35'36"	48°28'54"	3184			
I220	73°40'54"	48°28'18"	3174			
I230	73°46' 0"	48°26' 6"	3197			
I235	73°48'30"	48°23'54"	3199			
I240	73°51' 0"	48°21'48"	3203			
I250	73°56'18"	48°19'36"	3211			
I260	74°01'30"	48°18' 6"	3219			
I270	74°06'36"	48°13' 6"	3222			
I275	74°09'12"	48°11'54"	3230			
I280	74°11'42"	48°10'30"	3240			
I290	74°16'54"	48°08'18"	3246			
I300	74°22' 0"	48°06'42"	3266			
I310	74°27' 6"	48°05'48"	3271			
I315	74°29'36"	48°05'12"	3277			
I320	74°32'12"	48°03'54"	3284			
I328	74°36'17"	48°01'48"	3284			
I330	74°37'18"	48°01'30"	3284			
I340	74°42'30"	47°59'18"	3290			
I350	74°47'48"	47°56'12"	3299			
I355	74°50'24"	47°55'30"	3303			
I360	74°52'54"	47°55'42"	3308			
I365	74°55'22"	47°56'06"	3310			
I370	74°58' 6"	47°56'48"	3312			
I380	75°03'18"	47°57'18"	3322			
I390	75°08'36"	47°57'36"	3328			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route I】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
I400	75°13'54"	47°58' 6"	3329			
I410	75°19' 6"	48°00'12"	3333			
I420	75°24'12"	47°54'18"	3355			
I430	75°29'30"	47°56'12"	3362			
I435	75°32' 6"	47°57'18"	3365			
I440	75°34'36"	47°58' 0"	3369			
I450	75°39'54"	48°00'42"	3362			
I460	75°45'12"	48°03'24"	3369			
I470	75°50'24"	48°03'54"	3365			
I480	75°56'36"	48°04'30"	3380			
I485	75°59'35"	48°05'48"	3388			
I500	76°07'30"	48°05' 0"	3385			
I515	76°15'24"	48°05'24"	3394			
I530	76°23'18"	48°06' 0"	3403			
I540	76°28'36"	48°06' 0"	3404			
I555	76°36'30"	48°06'12"	3404			
I570	76°44'30"	48°06'30"	3406			
I585	76°52'30"	48°05'36"	3405			
I600	77°00'18"	48°02'44"	3408			

【Route C】				S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
C 1	71°23'36"	35°44'36"	1813	701	1112	
C 2	71°21'54"	35°48' 6"	1832	629	1203	
C 3	71°21'24"	35°50'54"	1848	1094	754	
C 4	71°20'48"	35°53'42"	1828	826	1002	
C 5	71°20'24"	35°56'30"	1808	804	1004	
C 6	71°19'42"	35°59'18"	1796	1113	683	
C 7	71°19'18"	36°02' 6"	1794			
C 8	71°18'42"	36°04'54"	1790			
C 9	71°18'12"	36°07'48"	1779			
C 10	71°17'36"	36°10'30"	1768	1171	597	
C 11	71°17'12"	36°13'12"	1764	1394	370	
C 12	71°16'30"	36°16' 0"	1757	1283	474	
C 13	71°16' 6"	36°18'48"	1754	1257	497	
C 14	71°15'30"	36°21'36"	1758	1154	604	
C 15	71°15' 0"	36°24'24"	1763	1428	335	
C 16	71°14'24"	36°27'12"	1759	1283	476	
C 17	71°13'54"	36°30' 0"	1759	1240	519	
C 18	71°13'18"	36°32'36"	1768	1368	400	
C 19	71°12'36"	36°34'12"	1762	1385	377	
C 20	71°11'54"	36°36'36"	1764	1710	54	
C 21	71°11'30"	36°39'24"	1766	930	836	
C 22	71°11' 0"	36°41'30"	1756	1334	422	
C 23	71°10'36"	36°44'18"	1759	1171	588	
C 24	71°10' 6"	36°46'54"	1771			
C 25	71°09'42"	36°49'30"	1782	855	927	
C 26	71°09'12"	36°52'12"	1779	1026	753	
C 27	71°08'48"	36°55'36"	1786	855	931	
C 28	71°08'12"	36°58'24"	1787	778	1009	
C 29	71°08'12"	37°01'36"	1787	804	983	
C 30	71°08' 6"	37°04'42"	1792	821	971	
C 31	71°08' 6"	37°07'54"	1798	958	840	
C 32	71°08'36"	37°11' 6"	1798	855	943	
C 33	71°08' 6"	37°14'18"	1799			
C 34	71°08' 0"	37°17'30"	1797	1539	258	
C 35	71°08' 0"	37°20'42"	1801			
C 36	71°08' 0"	37°23'54"	1803			
C 37	71°07'53"	37°27'30"	1805	1483	322	
C 38	71°07'54"	37°30'18"	1806	1454	352	
C 39	71°07'48"	37°33'30"	1808	1454	354	
C 40	71°07'48"	37°36'36"	1813	1245	568	
C 41	71°07'42"	37°39'48"	1815	1505	310	
C 42	71°07'42"	37°43' 0"	1811	1505	306	
C 43	71°07'36"	37°46'12"	1808	1390	418	
C 44	71°07'36"	37°49'24"	1807	1112	695	
C 45	71°07'30"	37°52'30"	1799	1026	773	
C 46	71°07'30"	37°55'42"	1793	1206	587	
C 47	71°07'18"	37°58'54"	1799	1368	431	
C 48	71°07'18"	38°02' 6"	1793	1654	139	
C 49	71°07'12"	38°05'18"	1792	864	928	
C 50	71°07'12"	38°08'24"	1796	1394	402	
C 51	71°07' 6"	38°11'36"	1786	1684	102	
C 52	71°07' 6"	38°14'48"	1768	1462	306	
C 53	71°07' 0"	38°18' 0"	1757			

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e C 】

C 54	71°07' 0"	38°21'12"	1763	1642	121
C 55	71°06'54"	38°24'18"	1757		
C 56	71°06'54"	38°27'30"	1745		
C 57	71°06'48"	38°30'42"	1730		
C 58	71°06'48"	38°33'54"	1725		
C 59	71°06'42"	38°37'12"	1721		
C 60	71°06'42"	38°40'18"	1729		
C 61	71°06'36"	38°43'30"	1744		
C 62	71°06'36"	38°46'42"	1749		
C 63	71°06'30"	38°49'48"	1748		
C 64	71°06'30"	38°53' 0"	1741		
C 65	71°06'24"	38°56'12"	1737		
C 66	71°06'24"	38°59'24"	1741	1659	82
C 67	71°06'18"	39°02'36"	1740	1488	252
C 68	71°06'18"	39°05'42"	1719	1479	240
C 69	71°06'12"	39°08'54"	1743	1448	295
C 70	71°06'12"	39°12' 6"	1747	1539	208
C 71	71°06' 6"	39°15'18"	1713	1436	277
C 72	71°06' 6"	39°18'30"	1733	1508	225
C 73	71°06' 0"	39°21'36"	1734	1483	251
C 74	71°06' 0"	39°24'18"	1733	1262	471
C 75	71°05'54"	39°28' 0"	1749	1488	261
C 76	71°05'54"	39°31'12"	1753	1573	180
C 77	71°05'48"	39°34'24"	1751	1462	289
C 78	71°05'48"	39°37'30"	1757	1448	309
C 79	71°05'48"	39°40'42"	1772	1383	389
C 80	71°05'40"	39°43'53"	1767	1676	91
C 81	71°05'42"	39°47'24"	1767	1595	172
C 82	71°05'42"	39°50'48"	1775	1924	-149
C 83	71°05'48"	39°54' 6"	1780	1924	-144
C 84	71°05'48"	39°57'30"	1793	1666	127
C 85	71°05'48"	40°01' 0"	1794	1693	101
C 86	71°05'48"	40°03'30"	1799		
C 87	71°05'48"	40°06'48"	1817	1751	66
C 88	71°05'48"	40°10'12"	1817		
C 89	71°05'48"	40°13'36"	1806		
C 90	71°05'48"	40°17' 6"	1802		
C 91	71°05'48"	40°20'30"	1805		
C 92	71°05'48"	40°23'54"	1801		
C 93	71°05'54"	40°27'18"	1787	1654	133
C 94	71°05'54"	40°31'48"	1794	1796	-2
C 95	71°05'54"	40°35'18"	1796		
C 96	71°05'54"	40°38'42"	1790	1683	107
C 97	71°05'54"	40°42' 0"	1809	1539	270
C 98	71°06' 0"	40°45'30"	1824	1654	170
C 99	71°06' 0"	40°48'54"	1838		
C100	71°06' 0"	40°52'24"	1823	1967	-144
C101	71°06' 0"	40°55'42"	1827	1903	-76
C102	71°06' 0"	40°59' 6"	1827	2095	-268
C103	71°06' 6"	41°02'30"	1838		
C104	71°06' 6"	41°06' 0"	1837	1989	-152
C105	71°06' 6"	41°09'30"	1836	1903	-67
C106	71°06' 6"	41°12'48"	1853	1967	-114

【Route C】			S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
C107	71°06'12"	41°16'12"	1856		
C108	71°06'18"	41°19'36"	1860	1753	107
C109	71°06'18"	41°23' 6"	1875	1830	45
C110	71°06'18"	41°26'36"	1889	1825	64
C111	71°06'18"	41°29'54"	1890	1903	-13
C112	71°06'18"	41°33'18"	1889	2009	-120
C113	71°06'24"	41°36'42"	1917		
C114	71°06'24"	41°40'12"	1934		
C115	71°06'24"	41°43'36"	1930		
C116	71°06'30"	41°47' 0"	1919		
C117	71°06'30"	41°50'24"	1904	1796	108
C118	71°06'36"	41°53'48"	1937	1818	119
C119	71°06'36"	41°57'18"	1969	1881	88
C120	71°06'36"	42°00'42"	1984		
C121	71°05'36"	42°03' 6"	1991	2074	-83
C122	71°05'18"	42°05'24"	1991	2160	-169
C123	71°04'48"	42°07'42"	1993		
C124	71°04'12"	42°10' 6"	1982		
C125	71°03'36"	42°12'18"	1968		
C126	71°02'54"	42°14'36"	1958		
C127	71°02'18"	42°17' 0"	1963		
C128	71°01'42"	42°19'18"	1965		
C129	71°01' 6"	42°21'30"	1966		
C130	71°00'30"	42°23'48"	1978	2331	-353
C131	70°59'48"	42°26'12"	1985	2351	-366
C132	70°59'12"	42°28'24"	1994	2138	-144
C133	70°58'42"	42°30'48"	2004		
C134	70°58' 6"	42°33' 6"	2003		
C135	70°57'24"	42°35'24"	1998		
C136	70°56'48"	42°37'42"	1993		
C137	70°56'12"	42°40' 0"	1988		
C138	70°55'36"	42°42'24"	1994		
C139	70°55' 0"	42°44'36"	2000		
C140	70°54'24"	42°46'54"	2002		
C141	70°53'48"	42°49'18"	2006		
C142	70°53' 6"	42°51'30"	2012		
C143	70°52'36"	42°53'48"	2016		
C144	70°52' 0"	42°56'12"	2025		
C145	70°51'18"	42°58'30"	2031		
C146	70°50'42"	43°00'48"	2029		
C147	70°50' 6"	43°03' 6"	2040		
C148	70°49'48"	43°05'36"	2054		
C149	70°49'48"	43°08'18"	2044		

【 R o u t e N 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
N 0	71°38'	35°30'	1836			
N 1	71°39'	35°27'				
N 2	71°40'	35°21'	1834			
N 3	71°41'	35°15'	1832			
N 4	71°42'	35°09'	1844			
N 5	71°43'	35°03'	1858			
N 6	71°45'	34°59'	1842			
N 7	71°47'	34°55'	1862			
N 8	71°49'	34°51'	1869			
N 9	71°47'	34°59'				
N 10	71°48'	35°02'	1910			
N 11	71°50'	35°04'	1934			
N 12	71°53'	35°06'	1976			
N 13	71°55'	35°08'	1996			
N 14	71°57'	35°10'	2014			
N 15	71°59'	35°12'	2043			
N 16	72°00'	35°13'	2086			
N 17	71°58'	35°19'	2068			
N 18	71°56'	35°21'	2058			
N 19	71°54'	35°25'	2042			
N 20	71°51'	35°26'				
N 21	71°49'	35°27'	2022			
N 22	71°47'	35°33'	2012			
N 23	71°46'	35°38'	1995			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
Mizuho	70° 42' 03"	44° 17' 39"	2256	2002	254	*
YM 0	70° 42' 22"	44° 16' 32"	2249			
	70° 42' 40"	44° 15' 14"	2256			
YM 1	70° 42' 50"	44° 14' 33"	2259			
	70° 43' 16"	44° 13' 34"	2270			
YM 2	70° 43' 26"	44° 12' 10"	2265	1753	512	
	70° 43' 42"	44° 10' 47"	2257	1695	562	
YM 3	70° 43' 54"	44° 09' 04"	2248	1808	440	
	70° 44' 13"	44° 07' 46"	2234			
YM 4	70° 44' 29"	44° 06' 23"	2230			
	70° 44' 48"	44° 05' 03"	2233			
YM 5	70° 45' 15"	44° 03' 53"	2234			
	70° 45' 45"	44° 03' 10"	2238			
YM 6	70° 46' 15"	44° 02' 21"	2247			
	70° 46' 45"	44° 01' 42"	2252			
YM 7	70° 47' 09"	44° 00' 34"	2259			
	70° 47' 29"	43° 59' 12"	2260			
YM 8	70° 47' 51"	43° 58' 03"	2253	1752	501	
	70° 48' 16"	43° 56' 58"	2236	1752	484	
YM 9	70° 48' 41"	43° 55' 59"	2237	1818	419	
	70° 49' 01"	43° 54' 53"	2236	1766	470	
YM 10	70° 49' 24"	43° 53' 47"	2229	1832	397	
	70° 49' 49"	43° 52' 37"	2219			
YM 11	70° 50' 10"	43° 51' 26"	2230	1775	455	
	70° 50' 35"	43° 50' 20"	2237			
YM 12	70° 50' 59"	43° 49' 10"	2245			
	70° 51' 18"	43° 48' 17"	2245			
YM 13	70° 51' 43"	43° 46' 58"	2240			
	70° 52' 04"	43° 45' 44"	2244			
YM 14	70° 52' 28"	43° 44' 40"	2237			
	70° 52' 51"	43° 43' 21"	2251	1844	407	
YM 15	70° 53' 11"	43° 42' 17"	2251	1969	282	
	70° 53' 34"	43° 41' 08"	2252	1726	526	
YM 16	70° 53' 55"	43° 39' 58"	2248	1818	430	
	70° 54' 17"	43° 38' 47"	2240	1845	395	
YM 17	70° 54' 39"	43° 37' 34"	2232	1883	349	
	70° 55' 04"	43° 36' 16"	2240	1950	290	
YM 18	70° 55' 29"	43° 35' 06"	2252	1976	276	
	70° 55' 53"	43° 33' 55"	2253	1963	290	
YM 19	70° 56' 13"	43° 33' 02"	2255	1871	384	
	70° 56' 37"	43° 31' 54"	2240			
YM 20	70° 56' 58"	43° 30' 52"	2233	1963	270	
	70° 57' 20"	43° 29' 42"	2221			
YM 21	70° 57' 37"	43° 28' 16"	2209			
	70° 57' 55"	43° 26' 56"	2206	2029	177	
YM 22	70° 58' 18"	43° 25' 45"	2222	2014	208	
	70° 58' 34"	43° 24' 27"	2226			
YM 23	70° 58' 54"	43° 23' 09"	2229			
	70° 59' 16"	43° 21' 60"	2232			
YM 24	70° 59' 38"	43° 20' 54"	2237			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YM 25	70°59'59"	43°19'42"	2242			
	71°00'23"	43°18'24"	2244			
	71°00'43"	43°17'11"	2236			
YM 26	71°01'04"	43°15'57"	2233	1997	236	
	71°01'25"	43°14'46"	2237	1950	287	
YM 27	71°01'45"	43°13'44"	2229	1950	279	
	71°02'07"	43°12'33"	2230	1858	372	
YM 28	71°02'29"	43°11'22"	2224	1779	445	
	71°02'51"	43°10'12"	2217	1687	530	
YM 29	71°03'11"	43°08'55"	2205	1647	558	
	71°03'32"	43°07'48"	2183	1845	338	
YM 30	71°03'56"	43°06'44"	2164	1832	332	*
	71°04'16"	43°05'40"	2165	2003	162	
YM 31	71°04'39"	43°04'19"	2165	1871	294	
	71°05'01"	43°03'08"	2172	1700	472	
YM 32	71°05'21"	43°01'51"	2176	1713	463	
	71°05'45"	43°00'44"	2175	1779	396	
YM 33	71°06'05"	42°59'28"	2173	1845	328	
	71°06'26"	42°58'13"	2169	1726	443	
YM 34	71°06'45"	42°56'55"	2169	1766	403	
	71°07'05"	42°55'39"	2172	1818	354	
YM 35	71°07'27"	42°54'24"	2171	1792	379	
	71°07'47"	42°53'04"	2172	1739	433	
YM 36	71°08'11"	42°52'01"	2176	1726	450	
	71°08'31"	42°50'45"	2173	1805	368	
YM 37	71°08'52"	42°49'30"	2172	1779	393	
	71°09'15"	42°48'22"	2170	1845	325	
YM 38	71°09'37"	42°47'11"	2169	1858	311	
	71°09'59"	42°46'01"	2169	2135	34	
YM 39	71°10'23"	42°44'48"	2173	2121	52	
	71°10'41"	42°43'26"	2172			
YM 40	71°11'02"	42°42'11"	2173			
	71°11'21"	42°40'50"	2171			
YM 41	71°11'39"	42°39'30"	2167	1713	454	
	71°11'57"	42°38'10"	2163	1673	490	
YM 42	71°12'14"	42°36'48"	2160	1687	473	
	71°12'31"	42°35'25"	2151	1581	570	
YM 43	71°12'54"	42°34'13"	2146	1436	710	
	71°13'15"	42°33'01"	2142	1515	627	
YM 44	71°13'36"	42°31'43"	2145	1555	590	
	71°13'56"	42°30'25"	2153	1357	796	
YM 45	71°14'15"	42°29'10"	2160	1265	895	
	71°14'38"	42°28'03"	2179	1291	888	
YM 46	71°14'59"	42°27'01"	2185	1304	881	
	71°15'24"	42°25'36"	2189	1397	792	
YM 47	71°15'43"	42°24'31"	2191	1515	676	
	71°16'07"	42°23'23"	2191	1344	847	
YM 48	71°16'29"	42°22'15"	2191	1449	742	
	71°16'51"	42°21'01"	2192	1528	664	
YM 49	71°17'13"	42°19'46"	2197	1713	484	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71°17'35"	42°18'31"	2202	2108	94	
YM 50	71°17'53"	42°17'22"	2201			
	71°18'19"	42°16'09"	2194			
YM 51	71°18'39"	42°15'08"	2188			
	71°19'05"	42°13'52"	2185			
YM 52	71°19'26"	42°12'44"	2183			
	71°19'52"	42°11'28"	2184	1911	273	
YM 53	71°20'08"	42°10'22"	2185	2003	182	
	71°20'20"	42°08'47"	2184	1779	405	
YM 54	71°20'27"	42°07'12"	2188	1911	277	
	71°20'38"	42°05'41"	2188			
YM 55	71°20'52"	42°04'12"	2192			
	71°21'06"	42°02'41"	2194			
YM 56	71°21'19"	42°01'15"	2197			
	71°21'28"	41°59'40"	2197			
YM 57	71°21'35"	41°58'09"	2200			
	71°21'44"	41°56'36"	2198	1687	511	
YM 58	71°21'53"	41°55'08"	2194	1528	666	
	71°22'02"	41°53'34"	2191	1384	807	
YM 59	71°22'11"	41°52'04"	2184	1318	866	
	71°22'21"	41°50'29"	2181	1476	705	
YM 60	71°22'27"	41°48'52"	2180	1528	652	*
	71°22'46"	41°47'32"	2180	1502	678	
YM 61	71°22'52"	41°45'51"	2176	1555	621	
	71°23'07"	41°44'23"	2175	1726	449	
YM 62	71°23'21"	41°43'00"	2178	1713	465	
	71°23'33"	41°41'27"	2179	1845	334	
YM 63	71°23'39"	41°39'59"	2179	1779	400	
	71°23'45"	41°38'21"	2180	1779	401	
YM 64	71°23'49"	41°36'49"	2180	1687	493	
	71°23'50"	41°35'11"	2178	1713	465	
YM 65	71°23'58"	41°33'35"	2175	1660	515	
	71°24'05"	41°31'58"	2176	1752	424	
YM 66	71°24'14"	41°30'31"	2176	1818	358	
	71°24'24"	41°28'56"	2176			
YM 67	71°24'37"	41°27'32"	2173	1856	317	
	71°24'45"	41°25'56"	2173			
YM 68	71°24'59"	41°24'35"	2175			
	71°25'13"	41°23'04"	2175			
YM 69	71°25'19"	41°21'34"	2178	1980	198	
	71°25'31"	41°20'01"	2177	1832	345	
YM 70	71°25'39"	41°18'32"	2175	1752	423	
	71°25'47"	41°16'56"	2176	1739	437	
YM 71	71°25'58"	41°15'38"	2174	1739	435	
	71°26'05"	41°14'24"	2175	1752	423	
YM 72	71°26'12"	41°13'17"	2176	1845	331	*
	71°26'25"	41°11'46"	2176	1779	397	
YM 73	71°26'33"	41°10'20"	2181	1792	389	
	71°26'46"	41°08'48"	2176	1805	371	
YM 74	71°26'55"	41°07'20"	2189	1779	410	

S.E.: Surface Elevation
 I.T.: Ice Thickness
 B.E.: Bedrock Elevation
 【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YM 75	71°27'07"	41°05'48"	2192	1726	466	
	71°27'17"	41°04'25"	2184	1792	392	
	71°27'28"	41°02'52"	2176	1779	397	
YM 76	71°27'39"	41°01'27"	2189	1739	450	
	71°27'47"	40°59'52"	2186	1752	434	
YM 77	71°28'03"	40°58'31"	2186	1766	420	
	71°27'59"	40°57'19"	2168	1752	416	
YM 78	71°28'06"	40°55'31"	2181	1779	402	
	71°28'20"	40°54'04"	2173			
YM 79	71°28'34"	40°52'41"	2173	1713	460	
	71°28'54"	40°51'21"	2189	1713	476	
YM 80	71°28'49"	40°49'27"	2163	1568	595	*
	71°28'58"	40°47'54"	2167	1515	652	
YM 81	71°29'16"	40°45'52"	2174	1528	646	
	71°29'14"	40°44'27"	2178	1568	610	
YM 82	71°29'35"	40°43'48"	2181	1594	587	
	71°29'51"	40°42'15"	2181	1726	455	
YM 83	71°30'05"	40°41'07"	2187	1752	435	
	71°30'15"	40°39'37"	2188	1779	409	
YM 84	71°30'27"	40°38'25"	2190	1726	464	
	71°30'43"	40°36'57"	2196	1713	483	
YM 85	71°30'54"	40°35'50"	2196	1726	470	
	71°31'02"	40°34'16"	2198	1713	485	
YM 86	71°31'16"	40°32'60"	2200	1700	500	
	71°31'34"	40°31'42"	2204	1713	491	
YM 87	71°32'00"	40°30'45"	2212	1713	499	
	71°32'19"	40°29'33"	2216	1726	490	
YM 88	71°32'45"	40°28'32"	2218	1739	479	
	71°32'56"	40°27'25"	2222	1739	483	
YM 89	71°33'09"	40°25'57"	2220	1752	468	
	71°33'20"	40°24'45"	2224	1739	485	
YM 90	71°33'44"	40°23'40"	2222	1739	483	
	71°33'59"	40°22'34"	2229	1710	519	
YM 91	71°34'00"	40°21'02"	2231	1818	413	
	71°34'16"	40°19'41"	2230	1805	425	
YM 92	71°34'28"	40°18'11"	2229	1739	490	
	71°34'43"	40°16'37"	2232	1766	466	
YM 93	71°34'60"	40°15'17"	2229	1752	477	
	71°35'10"	40°14'16"	2229	1752	477	
YM 94	71°35'24"	40°12'29"	2232	1713	519	
	71°35'30"	40°11'10"	2226	1779	447	
YM 95	71°35'37"	40°09'37"	2222	1845	377	
	71°35'42"	40°08'04"	2217	1845	372	
YM 96	71°35'52"	40°06'28"	2214	1937	277	*
	71°36'10"	40°05'02"	2214			
YM 97	71°36'20"	40°03'25"	2215	1910	305	
	71°36'25"	40°01'45"	2214			
YM 98	71°36'35"	40°00'09"	2215			
	71°36'43"	39°58'30"	2217	1845	372	
YM 99	71°36'50"	39°56'52"	2219	1818	401	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71°37'02"	39°55'16"	2222	1779	443	
YM100	71°37'11"	39°53'39"	2222	1726	496	
	71°37'19"	39°52'01"	2225			
YM101	71°37'31"	39°50'26"	2225	1726	499	
	71°37'41"	39°48'50"	2225	1608	617	
YM102	71°37'51"	39°47'10"	2225	1515	710	*
	71°38'26"	39°47'09"	2236	1565	671	
YM103	71°38'56"	39°46'21"	2246	1664	582	
	71°39'00"	39°46'08"	2249	1664	585	
YM104	71°39'16"	39°44'37"	2252			
	71°39'38"	39°43'29"	2254			
YM105	71°39'50"	39°41'51"	2253	1795	458	
	71°39'58"	39°40'07"	2248	1845	403	
YM106	71°40'05"	39°38'20"	2252	1795	457	
	71°40'13"	39°36'45"	2250	1746	504	
YM107	71°40'26"	39°35'05"	2258	1944	314	
	71°40'38"	39°33'42"	2259	1762	497	
YM108	71°40'44"	39°32'00"	2264	1795	469	
	71°40'53"	39°30'25"	2267	1812	455	
YM109	71°40'58"	39°28'42"	2268	1795	473	
	71°41'01"	39°27'04"	2265	1795	470	
YM110	71°41'08"	39°25'20"	2263	1759	468	
	71°41'12"	39°23'43"	2262			
YM111	71°41'12"	39°21'54"	2260			
	71°41'14"	39°20'20"	2260			
YM112	71°41'20"	39°18'35"	2259			
	71°41'21"	39°16'58"	2248			
YM113	71°41'21"	39°15'12"	2248			
	71°41'28"	39°13'33"	2250			
YM114	71°41'35"	39°11'45"	2253			
	71°41'39"	39°10'12"	2253			
YM115	71°41'46"	39°08'30"	2257			
	71°42'10"	39°07'14"	2265			
YM116	71°42'14"	39°05'31"	2259			
	71°42'20"	39°03'53"	2257	1631	626	
YM117	71°42'27"	39°02'11"	2259	1614	645	
	71°42'33"	39°00'34"	2259	1664	595	
YM118	71°42'03"	39°00'14"	2261	1631	630	
	71°42'13"	38°58'34"	2267	1631	636	
YM119	71°42'24"	38°56'55"	2270			
	71°42'35"	38°55'20"	2274	1729	545	
YM120	71°42'47"	38°53'37"	2276	1677	599	
	71°42'55"	38°52'11"	2279			
YM121	71°43'10"	38°50'36"	2283	1680	603	
	71°43'19"	38°49'00"	2286			
YM122	71°43'30"	38°47'16"	2294			
	71°43'40"	38°45'41"	2297	1665	632	
YM123	71°43'51"	38°43'56"	2299			
	71°44'02"	38°42'33"	2302			
YM124	71°44'15"	38°40'50"	2305	1674	631	

【Route YM】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71°44'26"	38°39'15"	2308			
YM125	71°44'46"	38°37'50"	2311			
	71°44'55"	38°36'03"	2309			
YM126	71°45'09"	38°34'28"	2316			
	71°45'17"	38°32'13"	2317	1581	736	
YM127	71°45'34"	38°30'41"	2317	1515	802	
	71°45'44"	38°29'02"	2320	1614	706	
YM128	71°45'58"	38°27'25"	2322	1515	807	
	71°46'17"	38°25'57"	2328	1400	928	
YM129	71°46'29"	38°24'19"	2334	1515	819	
	71°46'43"	38°22'48"	2340	1598	742	
YM130	71°46'55"	38°21'11"	2341	1598	743	*
	71°47'11"	38°19'37"	2340	1449	891	
YM131	71°47'22"	38°18'01"	2329	1515	814	
	71°47'30"	38°16'22"	2333	1729	604	
YM132	71°47'45"	38°14'51"	2343	1664	679	
	71°47'51"	38°13'10"	2349	1565	784	
YM133	71°47'53"	38°11'28"	2344	1367	977	
	71°48'09"	38°09'52"	2343	1400	943	
YM134	71°48'32"	38°08'31"	2337	1235	1102	
	71°48'31"	38°06'43"	2351	1285	1066	
YM135	71°48'47"	38°05'14"	2363	1136	1227	
	71°48'52"	38°03'22"	2377	1318	1059	
YM136	71°49'05"	38°01'47"	2381	1367	1014	
	71°49'11"	38°00'01"	2386	1499	887	
YM137	71°49'22"	37°58'25"	2388	1664	724	
	71°49'28"	37°56'49"	2386	1482	904	
YM138	71°49'36"	37°55'09"	2386	1631	755	
	71°48'47"	37°53'32"	2386	1647	739	
YM139	71°50'07"	37°52'13"	2391	1614	777	
	71°50'09"	37°50'15"	2383	1153	1230	
YM140	71°50'06"	37°48'32"	2390	1515	875	
	71°50'03"	37°46'56"	2397	1548	849	
YM141	71°50'09"	37°45'15"	2401	1631	770	
	71°50'08"	37°43'33"	2401	1362	1039	
YM142	71°50'09"	37°41'50"	2404	1271	1133	*
	71°50'14"	37°40'13"	2405	1332	1073	
YM143	71°50'10"	37°38'26"	2406	1271	1135	
	71°50'10"	37°36'48"	2403	1271	1132	
YM144	71°50'14"	37°35'06"	2403	1332	1071	
	71°50'18"	37°33'23"	2402	1362	1040	
YM145	71°50'18"	37°31'40"	2403	1466	937	
	71°50'22"	37°29'57"	2404	1318	1086	
YM146	71°50'24"	37°28'14"	2406	1268	1138	
	71°50'25"	37°26'37"	2412	1252	1160	
YM147	71°50'30"	37°24'50"	2416	1332	1084	
	71°50'36"	37°23'13"	2416	1362	1054	
YM148	71°50'42"	37°21'32"	2417			
	71°50'44"	37°19'49"	2420	1400	1020	
YM149	71°50'48"	37°18'06"	2423	1384	1039	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route YM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71°50'41"	37°16'21"	2423	1482	941	*
YM150	71°50'41"	37°14'34"	2423	1466	957	
	71°50'39"	37°12'47"	2423	1153	1270	
YM151	71°50'36"	37°11'00"	2423	1252	1171	
	71°50'27"	37°09'18"	2423	1071	1352	
YM152	71°50'20"	37°07'33"	2423	1499	924	
	71°50'19"	37°05'40"	2423	1548	875	
YM153	71°50'50"	37°05'10"	2423	1614	809	
	71°51'20"	37°04'43"	2422	1614	808	
YM154	71°51'50"	37°04'23"	2422	1564	858	
	71°52'20"	37°04'04"	2422	1551	871	
YM155	71°52'55"	37°03'39"	2422	1421	1001	
	71°53'22"	37°03'14"	2427	1331	1096	
YM156	71°53'52"	37°02'44"	2433	1499	934	
	71°53'48"	37°00'60"	2434	1664	770	
YM157	71°53'42"	36°59'14"	2426	1680	746	
	71°53'37"	36°57'28"	2426	1664	762	
YM158	71°53'31"	36°55'43"	2429	1400	1029	
	71°53'27"	36°53'56"	2433	1301	1132	
YM159	71°53'24"	36°52'08"	2437	1466	971	
	71°53'24"	36°50'22"	2435	1449	986	
YM160	71°53'22"	36°48'32"	2429	1581	848	
	71°53'19"	36°46'49"	2429	1614	815	
YM161	71°53'15"	36°44'60"	2423	1631	792	
	71°53'12"	36°43'16"	2414	1532	882	
YM162	71°53'08"	36°41'26"	2409	1548	861	
	71°53'02"	36°39'43"	2414	1581	833	
YM163	71°52'58"	36°37'57"	2414	1614	800	
	71°52'55"	36°36'09"	2412	1318	1094	
YM164	71°52'52"	36°34'20"	2408	708	1700	
	71°52'50"	36°32'35"	2411	626	1785	
YM165	71°52'30"	36°31'57"	2407	609	1798	
	71°52'17"	36°30'20"	2399	445	1954	
YM166	71°51'56"	36°28'57"	2400	824	1576	
	71°51'36"	36°27'31"	2398	988	1410	
YM167	71°51'14"	36°25'57"	2359	972	1423	
	71°50'55"	36°24'31"	2389	856	1533	
YM168	71°50'43"	36°23'38"	2379	741	1638	
	71°50'24"	36°22'10"	2378	741	1637	
YM169	71°50'06"	36°20'42"	2377	514	1863	
	71°49'47"	36°19'17"	2375	435	1940	
YM170	71°49'34"	36°18'18"	2364	296	2068	
	71°49'15"	36°16'50"	2340	445	1895	
YM171	71°48'53"	36°15'27"	2316	455	1861	
	71°48'29"	36°14'10"	2308	155	1853	
YM172	71°48'05"	36°12'53"	2298	445	1853	
	71°47'42"	36°11'41"	2285	385	1900	
YM173	71°47'20"	36°10'21"	2268	247	2021	
	71°47'03"	36°08'53"	2247	277	1970	
YM174	71°46'42"	36°07'31"	2243	455	1788	

【 R o u t e Y M 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71° 46 ' 25 "	36° 05 ' 56 "	2247	573	1674	*
YM175	71° 46 ' 19 "	36° 05 ' 36 "	2238	771	1467	
	71° 46 ' 04 "	36° 04 ' 03 "	2226	692	1534	
YM176	71° 45 ' 43 "	36° 02 ' 40 "	2214	603	1611	
	71° 45 ' 20 "	36° 01 ' 26 "	2208	870	1338	
YM177	71° 44 ' 56 "	36° 00 ' 22 "	2200	514	1686	
	71° 44 ' 42 "	35° 58 ' 47 "	2180	198	1982	
YM178	71° 44 ' 28 "	35° 57 ' 13 "	2155	237	1918	
	71° 44 ' 19 "	35° 55 ' 32 "	2153	198	1955	
YM179	71° 44 ' 15 "	35° 54 ' 21 "	2157	287	1870	*

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e A 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A 1	71° 47' 28"	36° 12' 12"	2254			
A 2	71° 47' 12"	36° 11'	2279			
A 3	71° 48' 0"	36° 11'	2251	436	1815	
A 4	71° 48' 36"	36° 13'	2269	595	1674	
A 6	71° 49' 48"	36° 17'	2318			
A 8	71° 48' 48"	36° 16'	2286	556	1730	
A 10	71° 50' 0"	36° 20'	2338	390	1948	
A 14	71° 50' 36"	36° 22'	2351	590	1761	
A 16	71° 50' 48"	36° 27'	2370	923	1447	
A 18	71° 50' 48"	36° 31'	2377	1094	1283	
A 20	71° 50' 54"	36° 36'	2388	1479	909	
A 22	71° 50' 6"	36° 39'	2375	1399	976	
A 23	71° 50' 18"	36° 44'	2382	1377	1005	
A 25	71° 50' 30"	36° 48'	2377	1402	975	
A 27	71° 50' 30"	36° 51'	2376	1377	999	
A 29	71° 51' 6"	36° 57'	2395			
A 31	71° 51' 36"	37° 03'	2410	1637	773	
A 33	71° 52' 24"	37° 10'	2409	1245	1164	
A 35	71° 53' 12"	37° 12'	2421	1368	1053	
A 37	71° 53' 36"	37° 14'	2426			
A 39	71° 53' 36"	37° 20'	2419			
A 41	71° 53' 36"	37° 29'	2411	1582	829	
A 43	71° 53' 36"	37° 36'	2404			
A 45	71° 53' 24"	37° 46'	2398			
A 47	71° 54' 0"	37° 52'	2409	1683	726	
A 49	71° 54' 12"	37° 59'	2412	1647	765	
A 51	71° 54' 30"	38° 08'	2414	1667	747	
A 53	71° 54' 42"	38° 14'	2409			
A 55	71° 54' 30"	38° 19'	2405			
A 57	71° 54' 0"	38° 29'	2399			
A 59	71° 53' 42"	38° 35'	2392			
A 61	71° 54' 0"	38° 43'	2397			
A 63	71° 54' 0"	38° 51'	2387			
A 65	71° 54' 18"	38° 57'	2384			
A 67	71° 54' 48"	39° 02'	2404			
A 69	71° 54' 30"	39° 10'	2406			
A 71	71° 55' 24"	39° 15'	2417			
A 73	71° 55' 12"	39° 18'	2414			
A 75	71° 55' 21"	39° 23' 45"	2412			
A 77	71° 55' 30"	39° 28'	2418			
A 79	71° 55' 36"	39° 31'	2424			
A 81	71° 55' 36"	39° 36'	2420			
A 83	71° 56' 0"	39° 46'	2430			
A 85	71° 57' 0"	39° 52'	2444			
A 87	71° 56' 42"	39° 57'	2436			
A 89	71° 56' 42"	40° 03'	2427			
A 91	71° 56' 48"	40° 10'	2426			
A 93	71° 56' 24"	40° 15'	2417			
A 95	71° 57' 0"	40° 26'	2453			
A 97	71° 57' 0"	40° 31'	2453			

【 R o u t e A 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A 99	71°57'54"	40°38'	2463			
A101	71°58'12"	40°44'	2469			
A103	71°58'24"	40°52'	2473			
A105	71°58'18"	40°58'	2479			
A107	71°58'42"	41°04'	2481			
A109	71°58'42"	41°10'	2485			
A111	71°59'24"	41°15'	2499			
A113	71°59'30"	41°18'	2498			
A115	72°00' 0"	41°24'	2507			
A117	72°00' 0"	41°27'	2511			
A119	72°00' 6"	41°31'	2504			
A121	72°00' 6"	41°36'	2530			
A123	72°00'30"	41°39'	2529			
A125	71°59'54"	41°43'	2533			
A127	72°00' 0"	41°47'	2535			
A129	71°59'54"	41°53'	2521			
A131	72°00' 0"	42°00'	2520			
A133	71°59'30"	42°06'	2514			
A135	71°59'48"	42°11'	2509			
A137	71°59'42"	42°13'	2509			
A139	71°59'18"	42°16'	2503			
A141	71°58'30"	42°18'	2500			
A143	71°57'48"	42°24'	2491			
A145	71°58' 0"	42°34'	2527			
A147	71°58' 6"	42°37'	2536			
A149	71°58'30"	42°40'	2542			
A151	71°58'30"	42°44'	2535			
A153	71°59' 6"	42°48'	2533	1291	1242	
A156	72°00' 6"	42°53'	2544			
A158	71°59'48"	42°58'	2540	1924	616	
A160	72°00'12"	43°04'	2565			
A162	72°00'12"	43°07'	2585			

【 R o u t e E S 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM118	72°33'27"	41°09'04"	2791			(γ2)*
ES 1	72°34'29"	41°09'01"	2801			
ES 2	72°35'33"	41°08'58"	2811			
ES 3	72°36'35"	41°08'55"	2810			
ES 4	72°37'43"	41°08'51"	2818			
ES 5	72°38'53"	41°08'48"	2835			
ES 6	72°39'55"	41°08'45"	2850			
ES 7	72°41'06"	41°08'42"	2854			
ES 8	72°42'01"	41°08'29"	2866			
ES 9	72°43'06"	41°08'26"	2876			
ES 10	72°44'07"	41°08'34"	2888			*
ES 11	72°45'08"	41°08'39"	2893			
ES 12	72°46'12"	41°08'44"	2902			
ES 13	72°47'10"	41°08'53"	2902			
ES 14	72°48'12"	41°09'34"	2899			
ES 15	72°49'10"	41°09'54"	2910			
ES 16	72°50'17"	41°10'12"	2929			
ES 17	72°51'19"	41°09'25"	2931			
ES 18	72°52'23"	41°09'39"	2929			
ES 19	72°53'24"	41°09'44"	2938			
ES 20	72°54'24"	41°09'30"	2937			
ES 21	72°55'31"	41°09'52"	2947			
ES 22	72°56'38"	41°09'58"	2954			
ES 23	72°57'45"	41°10'04"	2974			
ES 24	72°58'43"	41°10'09"	2972			
ES 25	72°59'56"	41°10'20"	2983			
ES 26	73°01'03"	41°10'17"	2995			
ES 27	73°02'07"	41°10'06"	3006			
ES 28	73°03'07"	41°10'03"	3013			
ES 29	73°04'11"	41°09'57"	3019			
ES 30	73°05'09"	41°10'09"	3029			(γ3)*
ES 31	73°06'14"	41°10'06"	3029			
ES 32	73°07'22"	41°09'51"	3042			
ES 33	73°08'24"	41°10'04"	3047			
ES 34	73°09'36"	41°10'01"	3047			
ES 35	73°10'38"	41°09'58"	3036			
ES 36	73°11'40"	41°09'56"	3071			
ES 37	73°12'45"	41°09'49"	3080			
ES 38	73°13'50"	41°09'47"	3093			
ES 39	73°14'49"	41°09'37"	3086			
ES 40	73°15'51"	41°09'30"	3089			
ES 41	73°16'59"	41°09'28"	3100			
ES 42	73°18'00"	41°10'04"	3114			*
ES 43	73°18'59"	41°10'02"	3127			
ES 44	73°20'01"	41°09'59"	3116			
ES 45	73°21'03"	41°09'57"	3117			
ES 46	73°22'02"	41°09'55"	3124			
ES 47	73°23'01"	41°09'52"	3129			
ES 48	73°24'03"	41°09'50"	3136			
ES 49	73°25'02"	41°09'47"	3135			

【Route ES】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ES 50	73°26'04"	41°09'29"	3153			
ES 51	73°27'06"	41°09'31"	3168			
ES 52	73°28'05"	41°09'16"	3180			
ES 53	73°29'06"	41°09'39"	3177			
ES 54	73°30'05"	41°09'12"	3180			
ES 55	73°31'04"	41°09'30"	3184			
ES 56	73°32'02"	41°09'35"	3203			
ES 57	73°33'04"	41°09'24"	3205			
ES 58	73°34'03"	41°09'06"	3216			
ES 59	73°35'02"	41°09'08"	3216			
ES 60	73°36'07"	41°09'05"	3221			(r 4)*
ES 61	73°36'11"	41°05'23"	3222			
ES 62	73°36'29"	41°01'59"	3225			
ES 63	73°36'36"	40°58'15"	3229			
ES 64	73°36'44"	40°54'30"	3223			
ES 65	73°36'50"	40°50'34"	3226			*
ES 66	73°36'54"	40°46'48"	3226			
ES 67	73°36'58"	40°42'51"	3227			
ES 68	73°36'51"	40°39'03"	3227			
ES 69	73°37'03"	40°35'32"	3229			
ES 70	73°37'28"	40°32'18"	3227			
ES 71	73°37'27"	40°28'41"	3230			
ES 72	73°37'30"	40°25'05"	3233			
ES 73	73°37'43"	40°21'36"	3233			
ES 74	73°37'50"	40°17'51"	3235			
ES 75	73°37'58"	40°14'55"	3235			
ES 76	73°38'05"	40°10'24"	3232			
ES 77	73°38'14"	40°06'04"	3227			
ES 78	73°38'22"	40°02'41"	3232			
ES 79	73°38'29"	39°59'07"	3234			
ES 80	73°38'38"	39°55'34"	3230			
ES 81	73°39'09"	39°49'47"	3235			(G7, SS125)*

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【Route IM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
Mizuho	70°42'03"	44°17'39"	2256	2002	254	*
IM 0	70°42'34"	44°17'13"	2261	2024	237	
	70°43'05"	44°16'46"	2263			
IM 1	70°43'36"	44°16'20"	2265			
	70°44'09"	44°16'15"	2272			
IM 2	70°44'37"	44°15'30"	2277			
	70°45'07"	44°14'59"	2276	1931	345	
IM 3	70°45'38"	44°14'33"	2275	1949	326	
	70°46'10"	44°14'06"	2271	1894	377	
IM 4	70°46'42"	44°13'35"	2267	2015	252	
	70°47'13"	44°13'10"	2266			
IM 5	70°47'44"	44°12'42"	2265	1857	408	
	70°48'16"	44°12'17"	2273	1774	499	
IM 6	70°48'47"	44°11'49"	2281	1910	371	
	70°49'18"	44°11'22"	2283	1950	333	
IM 7	70°49'49"	44°10'59"	2286	1884	402	
	70°50'20"	44°10'29"	2288	1858	430	
IM 8	70°50'52"	44°10'09"	2290	2003	287	
	70°51'23"	44°09'46"	2291	2204	87	
IM 9	70°51'53"	44°09'13"	2291	2084	207	
	70°52'25"	44°08'47"	2289			
IM 10	70°52'57"	44°08'15"	2290	2122	168	
	70°53'27"	44°07'44"	2291			
IM 11	70°53'58"	44°07'12"	2290	2111	179	
	70°54'30"	44°06'52"	2292	2312	-20	
IM 12	70°55'02"	44°06'32"	2290	2155	135	
	70°55'33"	44°06'05"	2292	2084	208	
IM 13	70°56'04"	44°05'38"	2293	2079	214	
	70°56'36"	44°05'15"	2298	2057	241	
IM 14	70°57'06"	44°04'45"	2300	2086	214	
	70°57'38"	44°04'20"	2303	2091	212	
IM 15	70°58'09"	44°03'56"	2307			
	70°58'41"	44°03'31"	2309			
IM 16	70°59'13"	44°02'56"	2314			
	70°59'44"	44°02'24"	2315			
IM 17	71°00'15"	44°02'01"	2321			
	71°00'47"	44°01'35"	2327			
IM 18	71°01'18"	44°00'59"	2330			
	71°01'50"	44°00'37"	2332			
IM 19	71°02'21"	44°00'11"	2333			
	71°02'53"	43°59'48"	2334			
IM 20	71°03'25"	43°59'18"	2333	2087	246	
	71°03'55"	43°58'43"	2336			
IM 21	71°04'28"	43°58'24"	2338	2100	238	
	71°04'60"	43°58'05"	2340			
IM 22	71°05'31"	43°57'33"	2343			
	71°06'04"	43°57'14"	2344			
IM 23	71°06'36"	43°56'46"	2347			
	71°07'07"	43°56'17"	2347	2082	265	
IM 24	71°07'37"	43°55'40"	2349	2003	346	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route IM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	71°08'09"	43°55'18"	2351			
IM 25	71°08'41"	43°54'55"	2357	2095	262	
	71°09'07"	43°54'02"	2362	2095	267	
IM 26	71°09'41"	43°53'52"	2364	2121	243	
	71°10'11"	43°53'16"	2369	2082	287	
IM 27	71°10'43"	43°52'50"	2368	2095	273	
	71°11'15"	43°52'33"	2370	2121	249	
IM 28	71°11'46"	43°52'02"	2372	2148	224	
	71°12'18"	43°51'37"	2372	2135	237	
IM 29	71°12'49"	43°51'09"	2374	2121	253	
	71°13'20"	43°50'43"	2375	2121	254	
IM 30	71°13'52"	43°50'15"	2379	2120	259	
	71°14'23"	43°49'46"	2379			
IM 31	71°14'54"	43°49'17"	2382	2043	339	
	71°15'27"	43°48'58"	2388			
IM 32	71°15'58"	43°48'28"	2389	2103	286	
	71°16'30"	43°47'59"	2394			
IM 33	71°17'01"	43°47'28"	2396	2215	181	
	71°17'33"	43°47'04"	2397			
IM 34	71°18'04"	43°46'36"	2397	2192	205	
	71°18'36"	43°46'10"	2396			
IM 35	71°19'08"	43°45'44"	2398	2217	181	
	71°19'41"	43°45'11"	2399			
IM 36	71°20'12"	43°44'45"	2404	2180	224	
	71°20'43"	43°44'13"	2408			
IM 37	71°21'14"	43°43'49"	2413			
	71°21'46"	43°43'26"	2416			
IM 38	71°22'17"	43°42'53"	2415	2135	280	
	71°22'49"	43°42'23"	2148			
IM 39	71°23'21"	43°41'50"	2418			
	71°23'53"	43°41'20"	2417	2217	200	
IM 40	71°24'25"	43°40'57"	2416	2184	232	(G1)*
IM 41	71°25'15"	43°39'16"	2416			
IM 42	71°26'07"	43°37'38"	2417			
IM 43	71°27'02"	43°36'08"	2418			
IM 44	71°27'56"	43°34'27"	2419			
IM 45	71°28'52"	43°32'52"	2420			
IM 46	71°29'40"	43°30'56"	2421			
IM 47	71°30'34"	43°29'10"	2423			
IM 48	71°31'31"	43°28'28"	2426			
IM 49	71°32'20"	43°26'43"	2429			
IM 50	71°33'12"	43°24'34"	2431			
IM 51	71°34'06"	43°22'39"	2434			
IM 52	71°34'53"	43°20'42"	2437			
IM 53	71°35'51"	43°19'20"	2440			
IM 54	71°36'36"	43°17'03"	2442			
IM 55	71°37'23"	43°14'57"	2445			
IM 56	71°38'19"	43°13'03"	2448			
IM 57	71°39'14"	43°11'09"	2451			
IM 58	71°40'04"	43°09'08"	2453			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route IM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM 59	71°40'54"	43°07'26"	2471			
IM 60	71°41'49"	43°06'03"	2490			
IM 61	71°42'42"	43°04'39"	2482			
IM 62	71°43'33"	43°03'17"	2483			
IM 63	71°44'21"	43°01'20"	2484			
IM 64	71°45'10"	42°59'12"	2485			
IM 65	71°45'59"	42°57'18"	2491			
IM 66	71°46'51"	42°55'27"	2476			
IM 67	71°47'39"	42°53'32"	2481			
IM 68	71°48'31"	42°51'31"	2485			
IM 69	71°49'26"	42°49'40"	2495			
IM 70	71°50'19"	42°47'49"	2503			
IM 71	71°51'14"	42°45'54"	2512			
IM 72	71°52'06"	42°43'32"	2519			
IM 73	71°52'54"	42°41'30"	2527			
IM 74	71°53'46"	42°39'22"	2533			
IM 75	71°54'40"	42°37'15"	2533			
IM 76	71°55'32"	42°35'05"	2531			
IM 77	71°56'27"	42°32'23"	2527			
IM 78	71°57'23"	42°29'44"	2525			
IM 79	71°58'19"	42°27'09"	2527			
IM 80	71°59'07"	42°24'05"	2552			(γ1)
IM 81	72°00'02"	42°22'05"	2557			
IM 82	72°01'04"	42°20'27"	2562			
IM 83	72°02'03"	42°18'23"	2573			
IM 84	72°03'03"	42°16'13"	2582			
IM 85	72°04'00"	42°14'20"	2573			
IM 86	72°04'58"	42°12'23"	2587			
IM 87	72°05'54"	42°10'39"	2612			
IM 88	72°06'48"	42°08'45"	2619			
IM 89	72°07'40"	42°06'54"	2608			
IM 90	72°08'34"	42°04'56"	2610			
IM 91	72°09'26"	42°02'53"	2619			
IM 92	72°10'18"	42°00'52"	2632			
IM 93	72°11'12"	41°58'55"	2642			
IM 94	72°12'04"	41°56'54"	2649			
IM 95	72°13'00"	41°54'48"	2655			
IM 96	72°13'58"	41°52'45"	2657			
IM 97	72°14'54"	41°50'57"	2662			
IM 98	72°15'51"	41°49'16"	2671			
IM 99	72°16'41"	41°47'04"	2677			
IM100	72°17'35"	41°45'03"	2680			
IM101	72°18'33"	41°43'06"	2680			
IM102	72°19'28"	41°40'56"	2681			
IM103	72°20'18"	41°38'43"	2685			
IM104	72°21'12"	41°36'42"	2699			
IM105	72°22'01"	41°34'14"	2708			
IM106	72°22'51"	41°32'16"	2711			
IM107	72°23'38"	41°29'51"	2715			
IM108	72°24'29"	41°27'53"	2720			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e I M 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM109	72°25'21"	41°26'06"	2727			
IM110	72°26'14"	41°24'07"	2736			
IM111	72°27'09"	41°22'24"	2743			
IM112	72°28'02"	41°20'27"	2749			
IM113	72°28'55"	41°18'45"	2756			
IM114	72°29'48"	41°16'54"	2763			
IM115	72°30'44"	41°14'51"	2772			
IM116	72°31'39"	41°12'58"	2776			
IM117	72°32'33"	41°10'51"	2781			
IM118	72°33'27"	41°09'04"	2791			(r 2)
IM119	72°34'20"	41°07'06"	2799			
IM120	72°35'14"	41°05'03"	2802			
IM121	72°36'08"	41°03'12"	2811			
IM122	72°37'01"	41°01'14"	2825			
IM123	72°37'53"	40°59'10"	2828			
IM124	72°38'49"	40°57'23"	2837			
IM125	72°39'41"	40°55'00"	2843			
IM126	72°40'38"	40°52'56"	2840			
IM127	72°41'33"	40°50'54"	2854			
IM128	72°42'23"	40°48'37"	2871			
IM129	72°43'16"	40°46'34"	2873			
IM130	72°44'12"	40°44'43"	2877			
IM131	72°45'06"	40°42'38"	2880			
IM132	72°45'59"	40°40'39"	2886			
IM133	72°46'50"	40°38'43"	2890			
IM134	72°47'42"	40°36'50"	2898			
IM135	72°48'29"	40°34'46"	2907			
IM136	72°49'23"	40°32'57"	2914			
IM137	72°50'12"	40°30'55"	2916			
IM138	72°50'59"	40°28'49"	2919			
IM139	72°51'47"	40°27'05"	2923			
IM140	72°52'36"	40°24'59"	2927			
IM141	72°53'24"	40°22'48"	2928			
IM142	72°54'13"	40°20'41"	2932			
IM143	72°54'58"	40°18'20"	2934			
IM144	72°55'48"	40°16'10"	2934			
IM145	72°56'38"	40°14'00"	2938			
IM146	72°57'31"	40°11'48"	2940			
IM147	72°58'20"	40°09'25"	2948			
IM148	72°59'07"	40°06'57"	2963			
IM149	72°59'56"	40°04'29"	2963			
IM150	73°00'45"	40°01'59"	2967			
IM151	73°01'34"	39°59'31"	2977			
IM152	73°02'25"	39°57'25"	2983			
IM153	73°03'12"	39°55'02"	2989			
IM154	73°03'57"	39°52'33"	2995			
IM155	73°04'55"	39°50'13"	2998			
IM156	73°05'48"	39°47'54"	3002			
IM157	73°06'40"	39°45'31"	3006			(G 6)
IM158	73°07'31"	39°42'50"	3011			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route IM】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM159	73°08'25"	39°40'27"	3012			
IM160	73°09'12"	39°37'52"	3023			
IM161	73°10'00"	39°35'19"	3037			
IM162	73°10'50"	39°32'54"	3048			
IM163	73°11'38"	39°30'21"	3055			
IM164	73°12'24"	39°27'45"	3053			
IM165	73°13'13"	39°25'09"	3058			
IM166	73°14'03"	39°22'26"	3058			
IM167	73°14'49"	39°19'52"	3060			
IM168	73°15'37"	39°17'20"	3064			
IM169	73°16'22"	39°14'33"	3065			
IM170	73°17'10"	39°11'55"	3066			
IM171	73°17'56"	39°09'20"	3068			
IM172	73°18'43"	39°06'32"	3084			
IM173	73°19'33"	39°04'09"	3090			
IM174	73°20'23"	39°01'49"	3098			
IM175	73°21'09"	38°58'47"	3110			
IM176	73°21'55"	38°56'16"	3113			
IM177	73°22'42"	38°53'34"	3118			
IM178	73°23'27"	38°50'50"	3122			
IM179	73°24'14"	38°47'59"	3128			
IM180	73°25'01"	38°45'20"	3129			
IM181	73°25'46"	38°42'31"	3132			
IM182	73°26'31"	38°39'43"	3130			
IM183	73°27'18"	38°37'03"	3134			
IM184	73°28'03"	38°34'18"	3140			
IM185	73°28'48"	38°31'30"	3142			
IM186	73°29'34"	38°28'47"	3145			
IM187	73°30'20"	38°26'01"	3149			
IM188	73°31'05"	38°23'15"	3154			
IM189	73°31'52"	38°20'10"	3160			
IM190	73°32'40"	38°17'14"	3164			
IM191	73°33'26"	38°14'18"	3165			
IM192	73°34'13"	38°11'17"	3167			
IM193	73°34'56"	38°08'24"	3170			
IM194	73°35'41"	38°05'24"	3171			
IM195	73°36'26"	38°02'36"	3172			
IM196	73°37'14"	37°59'35"	3173			
IM197	73°38'04"	37°56'28"	3176			
IM198	73°38'40"	37°53'53"	3178			(SS150)
IM199	73°39'21"	37°50'51"	3178			
IM200	73°40'10"	37°48'05"	3177			
IM201	73°41'00"	37°45'15"	3178			
IM202	73°41'40"	37°42'04"	3176			
IM203	73°42'15"	37°38'45"	3181			
IM204	73°42'52"	37°35'28"	3185			
IM205	73°43'31"	37°32'21"	3187			
IM206	73°44'12"	37°29'19"	3189			
IM207	73°44'52"	37°26'20"	3189			
IM208	73°45'30"	37°23'19"	3190			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I M 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM209	73° 46' 09"	37° 20' 16"	3191			
IM210	73° 46' 48"	37° 17' 13"	3190			
IM211	73° 47' 26"	37° 14' 01"	3190			
IM212	73° 48' 03"	37° 10' 55"	3188			
IM213	73° 48' 43"	37° 07' 55"	3189			
IM214	73° 49' 22"	37° 04' 51"	3190			
IM215	73° 50' 01"	37° 01' 48"	3191			
IM216	73° 50' 39"	36° 58' 31"	3193			
IM217	73° 51' 17"	36° 55' 21"	3195			
IM218	73° 51' 54"	36° 52' 07"	3195			
IM219	73° 52' 31"	36° 48' 51"	3194			
IM220	73° 53' 06"	36° 45' 36"	3195			
IM221	73° 53' 43"	36° 42' 21"	3196			
IM222	73° 54' 19"	36° 39' 06"	3197			
IM223	73° 54' 55"	36° 35' 56"	3196			
IM224	73° 55' 32"	36° 32' 43"	3194			
IM225	73° 56' 09"	36° 29' 28"	3195			
IM226	73° 56' 45"	36° 36' 12"	3197			
IM227	73° 57' 24"	36° 22' 54"	3197			
IM228	73° 57' 59"	36° 19' 36"	3196			
IM229	73° 58' 37"	36° 16' 16"	3195			
IM230	73° 59' 15"	36° 13' 00"	3195			
IM231	73° 59' 52"	36° 09' 42"	3195			
IM232	74° 00' 28"	36° 06' 24"	3198			
IM233	74° 01' 03"	36° 03' 00"	3199			
IM234	74° 01' 38"	35° 59' 40"	3198			
IM235	74° 02' 14"	35° 56' 22"	3198			
IM236	74° 02' 48"	35° 53' 00"	3199			
IM237	74° 03' 22"	35° 49' 37"	3198			
IM238	74° 03' 56"	35° 46' 17"	3197			
IM239	74° 04' 31"	35° 42' 56"	3198			
IM240	74° 05' 10"	35° 39' 45"	3200			
IM241	74° 05' 43"	35° 36' 17"	3200			
IM242	74° 06' 15"	35° 32' 50"	3200			
IM243	74° 06' 50"	35° 29' 29"	3198			
IM244	74° 07' 25"	35° 26' 07"	3196			
IM245	74° 08' 00"	35° 22' 46"	3197			
IM246	74° 08' 35"	35° 19' 25"	3197			
IM247	74° 09' 09"	35° 16' 03"	3197			
IM248	74° 09' 43"	35° 12' 39"	3196			
IM249	74° 10' 17"	35° 09' 16"	3195			
IM250	74° 10' 52"	35° 05' 52"	3195			
IM251	74° 11' 27"	35° 02' 30"	3195			
IM252	74° 12' 02"	34° 59' 08"	3193			(A.C.)

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS 0	71°02'25"	39°51'47"	1789	1318	469	(G2)*
	71°03'07"	39°51'44"	1791	1482	309	
SS 1	71°03'46"	39°51'41"	1801	1499	302	
	71°04'25"	39°51'36"	1814	1614	200	
SS 2	71°05'03"	39°51'24"	1820	1746	74	
	71°05'42"	39°51'07"	1824	1828	-4	
SS 3	71°06'20"	39°51'31"	1832	1680	152	
	71°07'02"	39°51'18"	1852	1779	73	
SS 4	71°07'39"	39°50'53"	1860	1779	81	
	71°08'21"	39°50'40"	1864	1680	184	
SS 5	71°08'60"	39°50'42"	1872	1532	340	
	71°09'39"	39°50'39"	1893	1631	262	
SS 6	71°10'18"	39°50'44"	1904	1944	-40	
	71°10'57"	39°50'47"	1901			
SS 7	71°11'34"	39°50'17"	1897	1976	-79	
	71°12'13"	39°50'12"	1891	1894	-3	
SS 8	71°12'52"	39°49'59"	1894	1960	-66	
	71°13'31"	39°49'58"	1896	1845	51	
SS 9	71°14'09"	39°49'53"	1899	1960	-61	
	71°14'47"	39°49'29"	1901	1779	122	
SS 10	71°15'29"	39°49'14"	1905	1499	406	*
	71°16'07"	39°49'14"	1908	1301	607	
SS 11	71°16'45"	39°49'11"	1923	1235	688	
	71°17'23"	39°49'05"	1958	1186	772	
SS 12	71°18'01"	39°48'53"	2002	1186	816	
	71°18'39"	39°49'04"	2019	1334	685	
SS 13	71°19'17"	39°49'15"	2024	1449	575	
	71°19'55"	39°49'16"	2026	1515	511	
SS 14	71°20'33"	39°49'02"	2035	1499	536	
	71°21'11"	39°48'52"	2039	1433	606	
SS 15	71°21'57"	39°48'50"	2051	1449	602	*
	71°22'35"	39°48'04"	2065	1499	566	
SS 16	71°23'06"	39°48'14"	2078	1515	563	
	71°23'37"	39°48'05"	2076	1548	528	
SS 17	71°24'25"	39°48'04"	2078	1532	546	
	71°24'56"	39°47'56"	2086	1499	587	
SS 18	71°25'29"	39°47'50"	2095	1565	530	
	71°25'60"	39°47'46"	2102	1499	603	
SS 19	71°26'31"	39°47'38"	2116	1565	551	
	71°27'04"	39°48'12"	2123	1631	492	
SS 20	71°27'29"	39°47'26"	2129	1631	498	
	71°27'58"	39°47'36"	2132	1614	518	
SS 21	71°28'31"	39°47'43"	2140	1647	493	
	71°29'01"	39°47'40"	2148	1664	484	
SS 22	71°29'34"	39°47'53"	2157	1696	461	
	71°30'04"	39°47'34"	2161	1746	415	
SS 23	71°30'34"	39°47'51"	2170	1795	375	
	71°31'04"	39°47'27"	2166	1812	354	
SS 24	71°31'36"	39°47'58"	2164	1828	336	
	71°32'01"	39°47'23"	2168	1779	389	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route SS】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS 25	71°32'32"	39°47'21"	2175	1779	396	(G3)*
	71°33'08"	39°47'20"	2179	1729	450	
SS 26	71°33'36"	39°47'16"	2184	1729	455	
	71°34'09"	39°47'11"	2193	1746	447	
SS 27	71°34'41"	39°47'15"	2193	1795	398	
	71°35'13"	39°47'02"	2193			
SS 28	71°35'44"	39°47'34"	2189	1701	488	
	71°36'16"	39°47'46"	2197			
SS 29	71°36'52"	39°47'40"	2213	1539	674	
	71°37'22"	39°47'08"	2216			
SS 30	71°37'51"	39°47'10"	2225	1515	710	*
	71°38'28"	39°47'20"	2248	1532	716	
SS 31	71°39'05"	39°47'09"	2264	1725	539	
	71°39'42"	39°46'60"	2275			
SS 32	71°40'19"	39°46'50"	2279	1845	434	
	71°40'57"	39°46'43"	2279	1878	401	
SS 33	71°41'34"	39°46'28"	2281	1893	388	
	71°42'13"	39°46'38"	2285			
SS 34	71°42'50"	39°46'33"	2295	1658	637	
	71°43'27"	39°46'26"	2306			
SS 35	71°44'05"	39°46'30"	2310	1795	515	
	71°44'43"	39°46'36"	2317	1776	541	
SS 36	71°45'21"	39°46'31"	2323			
	71°45'59"	39°46'15"	2327	1743	584	
SS 37	71°46'36"	39°46'16"	2338	1769	569	
	71°47'14"	39°46'14"	2350	1740	610	
SS 38	71°47'52"	39°46'06"	2356	1823	533	
	71°48'30"	39°46'12"	2363	1859	504	
SS 39	71°49'07"	39°46'20"	2371	1805	566	
	71°49'42"	39°45'40"	2371	1788	583	
SS 40	71°50'20"	39°45'39"	2379	1729	650	*
	71°50'58"	39°45'33"	2384	1729	655	
SS 41	71°51'37"	39°45'28"	2389	1631	758	
	71°52'12"	39°44'56"	2397	1631	766	
SS 42	71°52'50"	39°45'05"	2405	1614	791	
	71°53'27"	39°45'05"	2407	1614	793	
SS 43	71°54'05"	39°45'11"	2420	1614	806	
	71°54'44"	39°45'16"	2434	1701	733	
SS 44	71°55'21"	39°45'18"	2448	1642	806	
	71°55'58"	39°45'01"	2450	1686	764	
SS 45	71°56'36"	39°45'04"	2455	1746	709	
	71°57'15"	39°44'38"	2461	1665	796	
SS 46	71°57'53"	39°45'00"	2468	1785	683	
	71°58'31"	39°44'54"	2472	1863	609	
SS 47	71°59'09"	39°45'03"	2478	1893	585	
	71°59'47"	39°45'01"	2481	1648	833	
SS 48	72°00'25"	39°45'08"	2483	1762	721	
	72°01'03"	39°45'10"	2489	1746	743	
SS 49	72°01'40"	39°45'08"	2499	1762	737	
	72°02'18"	39°45'06"	2505	1746	759	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route SS】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS 50	72°02'56"	39°45'04"	2521	1762	759	(G4)*
	72°03'34"	39°45'01"	2531	1878	653	
SS 51	72°04'11"	39°44'59"	2538	1976	562	
	72°04'49"	39°45'00"	2542	2043	499	
SS 52	72°05'26"	39°45'00"	2546	2081	465	
	72°06'04"	39°44'55"	2547	2062	485	
SS 53	72°06'41"	39°45'10"	2551	2105	446	
	72°07'19"	39°45'19"	2552	1964	588	
SS 54	72°07'56"	39°45'16"	2558	2097	461	
	72°08'34"	39°45'13"	2564	2021	543	
SS 55	72°09'12"	39°45'15"	2568	1977	591	
	72°09'50"	39°45'12"	2573	1985	588	
SS 56	72°10'27"	39°45'07"	2575	1976	599	
	72°11'04"	39°45'18"	2580	1894	686	
SS 57	72°11'42"	39°45'13"	2586	1878	708	
	72°12'20"	39°45'10"	2595	1960	635	
SS 58	72°12'57"	39°45'08"	2601	2009	592	
	72°13'35"	39°45'11"	2604	2042	562	
SS 59	72°14'13"	39°45'04"	2610	1976	634	
	72°14'51"	39°44'59"	2616	2094	522	
SS 60	72°15'29"	39°44'52"	2625	2402	223	*
	72°16'08"	39°44'52"	2633	2401	232	
SS 61	72°16'46"	39°44'46"	2638			
	72°17'24"	39°44'42"	2640			
SS 62	72°18'02"	39°44'49"	2643	2045	598	
	72°18'40"	39°44'38"	2645	1976	669	
SS 63	72°19'18"	39°44'59"	2646	1894	752	
	72°19'55"	39°44'46"	2654	1957	697	
SS 64	72°20'33"	39°45'06"	2659	1828	831	
	72°21'11"	39°44'56"	2667	1873	794	
SS 65	72°21'49"	39°44'52"	2671	1762	909	
	72°22'27"	39°44'59"	2673	1746	927	
SS 66	72°23'05"	39°44'52"	2690	1499	1191	
	72°23'42"	39°45'19"	2702			
SS 67	72°24'21"	39°45'24"	2706			
	72°24'58"	39°45'05"	2706			
SS 68	72°25'36"	39°45'14"	2708			
	72°26'14"	39°45'05"	2713			
SS 69	72°26'51"	39°44'50"	2712			
	72°27'30"	39°44'57"	2720			
SS 70	72°28'08"	39°45'06"	2722	1828	894	
	72°28'45"	39°44'37"	2726	1713	1013	
SS 71	72°29'23"	39°44'46"	2734	1779	955	
	72°30'01"	39°44'40"	2742	1746	996	
SS 72	72°30'40"	39°44'40"	2753			
	72°31'18"	39°44'42"	2757			
SS 73	72°31'56"	39°44'47"	2764			
	72°32'35"	39°44'40"	2764			
SS 74	72°33'12"	39°44'36"	2767			
	72°33'50"	39°44'41"	2773			

【 R o u t e S S 】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS 75	72°34'31"	39°44'41"	2770	1762	1008	(G5)*
	72°35'09"	39°44'38"	2778			
SS 76	72°35'47"	39°44'35"	2785			
	72°36'26"	39°44'33"	2789			
SS 77	72°37'04"	39°44'30"	2793	1746	1047	
	72°37'42"	39°44'27"	2796	1614	1182	
SS 78	72°38'21"	39°44'24"	2805	1713	1092	
	72°38'59"	39°44'21"	2816	1990	826	
SS 79	72°39'37"	39°44'18"	2818			
	72°40'16"	39°44'15"	2827	2083	744	
SS 80	72°40'54"	39°44'12"	2829	2020	809	
	72°41'32"	39°44'09"	2840	1924	916	
SS 81	72°42'10"	39°44'07"	2849			
	72°42'48"	39°44'04"	2852			
SS 82	72°43'27"	39°44'01"	2852			
	72°44'05"	39°43'58"	2856	2087	769	
SS 83	72°44'43"	39°43'55"	2858	2145	713	
	72°45'21"	39°43'52"	2858	2098	760	
SS 84	72°45'60"	39°43'49"	2862	2109	753	
	72°46'38"	39°43'46"	2864	2124	740	
SS 85	72°47'18"	39°43'43"	2865	1548	1317	*
	72°47'56"	39°43'46"	2870	1614	1256	
SS 86	72°48'35"	39°43'48"	2872	1631	1241	
	72°49'15"	39°43'51"	2879	1351	1528	
SS 87	72°49'53"	39°43'54"	2892	1433	1459	
	72°50'31"	39°43'57"	2899	1812	1087	
SS 88	72°51'10"	39°43'55"	2903	2009	894	
	72°51'48"	39°44'02"	2907	2105	802	
SS 89	72°52'27"	39°44'07"	2912			
	72°53'05"	39°44'10"	2910			
SS 90	72°53'43"	39°44'15"	2900			
	72°54'23"	39°44'20"	2917	1721	1196	
SS 91	72°55'02"	39°44'18"	2937	1849	1088	
	72°55'41"	39°44'23"	2946	1750	1196	
SS 92	72°56'20"	39°44'28"	2951	2014	937	
	72°56'60"	39°44'33"	2956			
SS 93	72°57'39"	39°44'37"	2955	2215	740	
	72°58'18"	39°44'40"	2959	2249	710	
SS 94	72°58'56"	39°44'43"	2963			
	72°59'34"	39°44'45"	2970			
SS 95	73°00'13"	39°44'48"	2974	2346	628	
	73°00'52"	39°44'50"	2973			
SS 96	73°01'30"	39°44'55"	2977			
	73°02'09"	39°45'00"	2979			
SS 97	73°02'48"	39°45'08"	2985			
	73°03'26"	39°45'12"	2990			
SS 98	73°04'06"	39°45'20"	2994			
	73°04'44"	39°45'27"	2990			
SS 99	73°05'23"	39°45'34"	2999			
	73°06'02"	39°45'32"	3003			

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e S S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS100	73°06'41"	39°45'30"	3005	2355	650	(G6)*
	73°07'19"	39°45'17"	3014			
SS101	73°07'59"	39°45'20"	3024			
	73°08'39"	39°45'28"	3022			
SS102	73°09'18"	39°45'46"	3023	2402	621	
	73°09'56"	39°46'15"	3034			
SS103	73°10'35"	39°46'30"	3022			
	73°11'13"	39°46'40"	3032			
SS104	73°11'52"	39°46'29"	3048			
	73°12'30"	39°46'28"	3054			
SS105	73°13'09"	39°46'24"	3052			
	73°13'47"	39°46'22"	3049			
SS106	73°14'25"	39°46'42"	3055			
	73°15'05"	39°46'40"	3059			
SS107	73°15'44"	39°46'48"	3062			
	73°16'22"	39°46'42"	3062			
SS108	73°17'01"	39°46'50"	3067	1872	1195	
	73°17'40"	39°46'51"	3067	1741	1326	
SS109	73°18'18"	39°46'45"	3085	1869	1216	
	73°18'57"	39°46'43"	3098	1886	1212	
SS110	73°19'36"	39°46'49"	3105	1880	1225	
	73°20'15"	39°46'59"	3112	1914	1198	
SS111	73°20'54"	39°47'05"	3123			
	73°21'33"	39°47'15"	3125			
SS112	73°22'11"	39°47'18"	3128	1907	1221	
	73°22'50"	39°47'26"	3137	2107	1030	
SS113	73°23'29"	39°47'36"	3142	2276	866	
	73°24'08"	39°47'42"	3142			
SS114	73°24'47"	39°47'52"	3139			
	73°25'25"	39°47'52"	3141			
SS115	73°26'04"	39°48'08"	3140	1894	1246	*
	73°26'43"	39°48'09"	3143	1911	1232	
SS116	73°27'23"	39°48'26"	3146	1911	1235	
	73°28'01"	39°48'15"	3148	1812	1336	
SS117	73°28'40"	39°48'40"	3154	1812	1342	
	73°29'29"	39°48'40"	3161	1812	1349	
SS118	73°29'58"	39°48'41"	3165	1941	1224	
	73°30'37"	39°48'49"	3171	1944	1227	
SS119	73°31'16"	39°48'50"	3180	1810	1370	
	73°31'55"	39°48'50"	3188	1971	1217	
SS120	73°32'33"	39°48'56"	3190	2108	1082	
	73°33'13"	39°49'04"	3187			
SS121	73°33'53"	39°49'12"	3190			
	73°34'32"	39°49'19"	3193	1811	1382	
SS122	73°35'11"	39°49'25"	3199			
	73°35'51"	39°49'30"	3203	1812	1391	
SS123	73°36'30"	39°49'43"	3212	1878	1334	
	73°37'09"	39°49'36"	3218	2042	1176	
SS124	73°37'48"	39°49'42"	3220	1960	1260	
	73°38'26"	39°49'47"	3224	2108	1116	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route SS】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS125	73°39'09"	39°49'48"	3227	1960	1267	(G7)*
	73°39'08"	39°46'56"	3227	1848	1379	
SS126	73°39'07"	39°45'10"	3227	2009	1218	
	73°39'06"	39°42'50"	3228	2125	1103	
SS127	73°39'07"	39°40'31"	3225	2125	1100	
	73°39'08"	39°38'12"	3222	2108	1114	
SS128	73°39'09"	39°35'50"	3220	2191	1029	
	73°39'09"	39°33'33"	3221	2273	948	
SS129	73°39'09"	39°31'13"	3223	2240	983	
	73°39'08"	39°28'54"	3226	2306	920	
SS130	73°39'08"	39°26'35"	3221	2273	948	
	73°39'07"	39°24'16"	3218	2192	1026	
SS131	73°39'13"	39°21'57"	3218	1993	1225	
	73°39'20"	39°19'38"	3221	1976	1245	
SS132	73°39'17"	39°17'19"	3218	2092	1126	
	73°39'15"	39°15'01"	3218	2108	1110	
SS133	73°39'06"	39°12'48"	3217	2042	1175	
	73°38'58"	39°10'34"	3219	1812	1407	
SS134	73°38'58"	39°08'16"	3216	1729	1487	
	73°38'57"	39°05'56"	3224	2174	1050	
SS135	73°38'60"	39°03'37"	3226	2200	1026	
	73°39'02"	39°01'11"	3221			
SS136	73°39'00"	38°58'57"	3218			
	73°38'59"	38°56'39"	3219			
SS137	73°39'02"	38°54'20"	3216			
	73°39'06"	38°52'01"	3214			
SS138	73°39'04"	38°49'42"	3215			
	73°39'03"	38°47'24"	3214	2108	1106	
SS139	73°39'00"	38°45'06"	3214	2125	1089	
	73°38'57"	38°42'48"	3212	2125	1087	
SS140	73°38'59"	38°40'29"	3209	2075	1134	
	73°39'02"	38°38'09"	3204	2042	1162	
SS141	73°39'01"	38°35'44"	3200	2042	1158	
	73°39'01"	38°33'31"	3195			
SS142	73°38'59"	38°31'13"	3196	1805	1391	
	73°38'59"	38°28'55"	3194	1812	1382	
SS143	73°28'56"	38°26'36"	3193	1598	1595	
	73°38'54"	38°24'18"	3193	1680	1513	
SS144	73°38'53"	38°21'60"	3193	1976	1217	
	73°38'52"	38°19'41"	3192	1976	1216	
SS145	73°38'49"	38°17'24"	3184			*
	73°38'45"	38°15'00"	3184	2240	944	
SS146	73°38'51"	38°12'46"	3185	2226	959	
	73°38'57"	38°10'27"	3184			
SS147	73°38'53"	38°08'09"	3182	2254	928	
	73°38'50"	38°05'51"	3183			
SS148	73°38'46"	38°03'34"	3183			
	73°38'42"	38°01'17"	3183			
SS149	73°38'37"	37°58'59"	3183			
	73°38'37"	37°56'40"	3182			

【Route SS】 S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS150	73°38'37"	37°54'21"	3181			*
	73°38'33"	37°52'03"	3174			
SS151	73°37'53"	37°52'00"	3161	1828	1333	
	73°37'13"	37°51'57"	3154	1762	1329	
SS152	73°36'34"	37°52'32"	3144	1762	1382	
	73°35'56"	37°53'08"	3145	1729	1416	
SS153	73°35'16"	37°53'10"	3145	1878	1267	
	73°34'36"	37°53'11"	3140			
SS154	73°33'56"	37°53'18"	3138			
	73°33'17"	37°53'25"	3134			
SS155	73°32'37"	37°53'25"	3129			
	73°31'59"	37°53'24"	3131			
SS156	73°31'17"	37°53'41"	3133			
	73°30'37"	37°53'57"	3136			
SS157	73°29'58"	37°53'54"	3138			
	73°29'18"	37°53'52"	3133			
SS158	73°28'40"	37°54'12"	3129	1767	1362	
	73°27'58"	37°54'33"	3134	2075	1059	
SS159	73°27'19"	37°54'26"	3131	2009	1122	
	73°26'39"	37°54'18"	3125	1911	1214	
SS160	73°25'59"	37°54'30"	3102	1548	1554	
	73°25'19"	37°54'41"	3087	1565	1522	
SS161	73°24'40"	37°55'11"	3087	1861	1226	
	73°24'01"	37°55'41"	3086	1861	1225	
SS162	73°23'22"	37°55'10"	3082			
	73°22'43"	37°54'39"	3083			
SS163	73°22'04"	37°55'14"	3085			
	73°21'25"	37°55'48"	3083			
SS164	73°20'45"	37°55'58"	3080			
	73°20'05"	37°56'07"	3075			
SS165	73°19'26"	37°56'25"	3071	2061	1010	
	73°18'46"	37°56'43"	3067	1911	1156	
SS166	73°18'06"	37°56'50"	3062	1779	1283	
	73°17'27"	37°56'57"	3064			
SS167	73°16'47"	37°56'54"	3064			
	73°16'07"	37°56'51"	3062			
SS168	73°15'27"	37°57'02"	3063			
	73°14'48"	37°57'14"	3057			
SS169	73°14'08"	37°57'25"	3051	1614	1437	
	73°13'28"	37°57'36"	3040	1647	1393	
SS170	73°12'47"	37°57'36"	3030	1680	1350	*
	73°12'08"	37°57'36"	3018	1664	1354	
SS171	73°11'30"	37°57'14"	3011	1598	1413	
	73°10'52"	37°56'53"	3008			
SS172	73°10'14"	37°56'23"	3008			
	73°09'37"	37°55'53"	3006			
SS173	73°08'59"	37°55'31"	3009			
	73°08'21"	37°55'10"	3009			
SS174	73°07'42"	37°54'49"	3002			
	73°07'04"	37°54'28"	2999	1718	1281	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS175	73°06'22"	37°54'20"	2998			*
	73°05'43"	37°54'13"	2997			
SS176	73°05'04"	37°54'00"	2991			
	73°04'25"	37°53'49"	2981			
SS177	73°03'48"	37°53'35"	2980			
	73°03'08"	37°53'20"	2976			
SS178	73°02'29"	37°53'13"	2975	1812	1163	*
	73°01'49"	37°53'00"	2968	1696	1272	
SS179	73°01'10"	37°52'48"	2962	1944	1018	
	73°00'32"	37°52'36"	2962	1960	1002	
SS180	72°59'53"	37°52'21"	2954	1960	994	
	72°59'14"	37°52'07"	2949	1944	1005	
SS181	72°58'35"	37°52'06"	2944	1960	984	
	72°57'56"	37°52'05"	2946			
SS182	72°57'16"	37°51'43"	2942			
	72°56'38"	37°51'23"	2944			
SS183	72°55'59"	37°51'10"	2940	2092	848	
	72°55'21"	37°50'58"	2939	2059	880	
SS184	72°54'41"	37°50'51"	2936	1960	976	
	72°54'03"	37°50'43"	2935	1812	1123	
SS185	72°53'24"	37°50'36"	2924	1581	1343	
	72°52'45"	37°50'28"	2920	1696	1224	
SS186	72°52'06"	37°50'16"	2922	1911	1011	
	72°51'27"	37°50'04"	2923	1313	1610	
SS187	72°50'49"	37°49'54"	2916	1367	1549	
	72°50'10"	37°49'44"	2910	1334	1576	
SS188	72°49'31"	37°49'39"	2896	1104	1792	
	72°48'52"	37°49'34"	2893	1252	1641	
SS189	72°48'13"	37°49'22"	2890	1482	1408	
	72°47'35"	37°49'09"	2879	1252	1627	
SS190	72°46'56"	37°49'16"	2868	1136	1732	
	72°46'17"	37°49'22"	2864	1367	1497	
SS191	72°45'39"	37°49'07"	2864	1614	1250	
	72°44'60"	37°48'53"	2859	1713	1146	
SS192	72°44'21"	37°48'55"	2859			
	72°43'42"	37°48'56"	2859			
SS193	72°43'04"	37°48'44"	2857			
	72°42'24"	37°48'32"	2855	1779	1076	
SS194	72°41'46"	37°48'38"	2848	1515	1333	
	72°41'08"	37°48'44"	2839	1581	1258	
SS195	72°40'29"	37°48'43"	2837	1614	1223	
	72°39'50"	37°48'42"	2833	1845	988	
SS196	72°39'11"	37°48'42"	2829			
	72°38'32"	37°48'41"	2821	1400	1421	
SS197	72°37'53"	37°48'25"	2817	1614	1203	
	72°37'15"	37°48'08"	2812	1614	1198	
SS198	72°36'35"	37°48'14"	2806	1598	1208	
	72°35'56"	37°48'20"	2794	1400	1394	
SS199	72°35'17"	37°48'04"	2785	1548	1237	
	72°34'39"	37°47'47"	2784			

【Route SS】 S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS200	72°33'60"	37°47'40"	2781			
	72°33'21"	37°47'35"	2773			
SS201	72°32'42"	37°47'39"	2768			
	72°32'02"	37°47'43"	2768			
SS202	72°31'23"	37°47'33"	2764			
	72°30'45"	37°47'23"	2764			
SS203	72°30'06"	37°47'05"	2757			
	72°29'27"	37°46'46"	2750			
SS204	72°28'46"	37°46'27"	2750			
	72°28'09"	37°46'09"	2748			
SS205	72°27'30"	37°46'13"	2747			
	72°26'51"	37°46'16"	2743			
SS206	72°26'11"	37°45'50"	2737			
	72°25'34"	37°45'26"	2739	1680	1059	
SS207	72°24'56"	37°45'12"	2734	1664	1070	
	72°24'17"	37°44'58"	2716	1581	1135	
SS208	72°23'38"	37°44'57"	2707	1680	1027	
	72°22'59"	37°44'56"	2702			
SS209	72°22'21"	37°44'31"	2700			
	72°21'42"	37°44'05"	2694			
SS210	72°21'04"	37°43'33"	2695	1654	1041	
	72°20'26"	37°43'02"	2695	1618	1077	
SS211	72°19'47"	37°42'52"	2689			
	72°19'08"	37°42'43"	2687			
SS212	72°18'31"	37°42'00"	2683			
	72°17'54"	37°41'18"	2681			
SS213	72°17'13"	37°41'08"	2676	1631	1045	
	72°16'34"	37°40'58"	2666	1400	1266	
SS214	72°16'03"	37°40'51"	2659	1285	1374	
	72°15'24"	37°40'41"	2654	1449	1205	
SS215	72°14'46"	37°40'18"	2648	1449	1199	
	72°14'07"	37°39'56"	2644	1400	1244	
SS216	72°13'29"	37°39'46"	2626	1120	1506	
	72°12'49"	37°39'36"	2611	1136	1475	
SS217	72°12'12"	37°38'56"	2612	1071	1541	
	72°11'35"	37°38'16"	2599	1153	1446	
SS218	72°10'56"	37°37'53"	2591	1038	1553	
	72°10'18"	37°37'31"	2570	1153	1417	
SS219	72°09'40"	37°36'59"	2569	1318	1251	
	72°09'02"	37°36'28"	2572	1351	1221	
SS220	72°08'23"	37°36'05"	2573	1664	909	
	72°07'45"	37°35'43"	2564	1416	1148	
SS221	72°07'06"	37°35'42"	2554	1334	1220	
	72°06'27"	37°35'41"	2552	1449	1103	
SS222	72°05'49"	37°35'19"	2550	1466	1084	
	72°05'10"	37°34'56"	2545	1631	914	
SS223	72°04'31"	37°34'19"	2548	1507	1041	
	72°03'55"	37°33'45"	2541	1521	1020	
SS224	72°03'16"	37°33'18"	2529	1614	915	
	72°02'38"	37°32'51"	2519	1433	1086	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S S 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SS225	72°01'56"	37°32'26"	2510	1448	1062	*
	72°01'26"	37°31'00"	2493	1538	955	
SS226	72°00'59"	37°29'29"	2479	1265	1214	
	72°00'31"	37°27'60"	2480	1541	939	
SS227	72°00'04"	37°26'25"	2475	1381	1094	
	71°59'37"	37°24'51"	2478	1360	1118	
SS228	71°59'10"	37°23'20"	2474	1385	1089	
	71°58'43"	37°21'51"	2468	1367	1101	
SS229	71°58'17"	37°20'18"	2467	1379	1088	
	71°57'49"	37°18'43"	2459	1251	1208	
SS230	71°57'20"	37°17'20"	2458			
	71°56'49"	37°15'53"	2458			
SS231	71°56'21"	37°14'25"	2454			
	71°55'54"	37°12'59"	2456	1698	758	
SS232	71°55'27"	37°11'26"	2455	1729	726	
	71°55'01"	37°09'53"	2454	1680	774	
SS233	71°54'30"	37°08'33"	2450	1548	902	
	71°54'00"	37°07'13"	2443	1301	1142	
SS234	71°53'32"	37°05'39"	2428	1318	1110	
	71°53'06"	37°04'10"	2423	1466	957	
SS235	71°52'38"	37°02'37"	2420	1515	905	*

【 R o u t e Y G 6 】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YG6- 0	73°06'41"	39°45'30"	3005	2500	505	(G6)*
	73°06'36"	39°43'37"	3009	2481	528	
YG6- 1	73°06'34"	39°41'22"	3009	2488	521	
	73°06'33"	39°39'41"	3009	2380	629	
YG6- 2	73°06'30"	39°37'26"	3007	2331	676	
	73°06'29"	39°35'50"	3006	2340	666	
YG6- 3	73°06'26"	39°33'35"	3006	2019	987	
	73°06'25"	39°31'56"	3004			
YG6- 4	73°06'23"	39°29'45"	3004	2111	893	
	73°06'21"	39°28'04"	3003	1919	1084	
YG6- 5	73°06'19"	39°25'54"	3009	1516	1493	
	73°06'19"	39°23'43"	3010	1463	1547	
YG6- 6	73°06'19"	39°21'34"	3004	1395	1609	
	73°06'17"	39°13'41"	3002	1654	1348	
YG6- 7	73°06'18"	39°17'57"	3006	1655	1351	
	73°06'19"	39°15'50"	3008	1937	1071	
YG6- 8	73°06'19"	39°13'44"	3005	1827	1178	
	73°06'19"	39°11'53"	3000	1635	1365	
YG6- 9	73°06'17"	39°09'47"	2998	1822	1176	
	73°06'16"	39°07'53"	2995	1775	1220	
YG6- 10	73°06'14"	39°05'47"	2994			
	73°06'12"	39°03'57"	2995			
YG6- 11	73°06'09"	39°01'53"	2997			
	73°06'07"	39°00'01"	2998	1753	1245	
YG6- 12	73°06'06"	38°57'58"	2998			
	73°06'04"	38°56'06"	2997	1766	1231	
YG6- 13	73°06'03"	38°54'06"	2998	1712	1286	
	73°06'01"	38°52'14"	2998	1562	1436	
YG6- 14	73°05'58"	38°50'13"	2999	1497	1502	
	73°05'56"	38°48'21"	3002	1788	1214	
YG6- 15	73°05'53"	38°46'24"	3001	2026	975	
	73°05'51"	38°44'32"	2999	2043	956	
YG6- 16	73°05'46"	38°42'29"	2999	1751	1248	
	73°05'47"	38°40'37"	2999	1470	1529	
YG6- 17	73°05'45"	38°38'40"	2996	1342	1654	
	73°05'43"	38°36'59"	2996	1546	1450	
YG6- 18	73°05'41"	38°34'45"	2998	1835	1163	
	73°05'37"	38°32'58"	2998	1630	1368	
YG6- 19	73°05'33"	38°31'11"	2998	1436	1562	
	73°05'31"	38°29'21"	2998	1697	1301	
YG6- 20	73°05'29"	38°27'18"	2999	1731	1268	
	73°05'25"	38°25'31"	2998	1123	1875	
YG6- 21	73°05'22"	38°23'34"	2996			
	73°05'21"	38°21'28"	2997	1063	1934	
YG6- 22	73°05'18"	38°19'34"	2997	1398	1599	
	73°05'17"	38°17'48"	2998	1712	1286	
YG6- 23	73°05'16"	38°15'40"	2995	1772	1223	
	73°05'14"	38°13'48"	2995	1760	1235	
YG6- 24	73°05'10"	38°12'04"	2993	1859	1134	
	73°05'08"	38°11'15"	2991	1494	1497	

【 R o u t e Y G 6 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YG6- 25	73°05'07"	38°10'15"	2992	1394	1598	*
	73°05'03"	38°08'37"	2999	1233	1766	
YG6- 26	73°04'59"	38°06'46"	3003	1437	1566	
	73°04'56"	38°04'48"	3001	1493	1508	
YG6- 27	73°04'51"	38°02'59"	3005	1430	1575	
	73°04'48"	38°01'05"	3016	1799	1217	
YG6- 28	73°04'41"	37°59'16"	3009	1491	1518	
	73°04'37"	37°57'19"	3014	1531	1483	
YG6- 29	73°04'36"	37°55'16"	3007	1585	1422	
	73°04'34"	37°53'20"	3001	1622	1379	
YG6- 30	73°04'28"	37°51'27"	2996	1961	1035	
	73°04'26"	37°49'31"	2992	1811	1181	
YG6- 31	73°04'22"	37°47'37"	2996	1923	1073	
	73°04'19"	37°45'44"	3005	2182	823	
YG6- 32	73°14'15"	37°43'42"	3005	2235	770	
	73°04'10"	37°41'53"	3003	2292	711	
YG6- 33	73°04'10"	37°39'43"	3001			
	73°04'03"	37°37'43"	3014	2322	692	
YG6- 34	73°04'01"	37°35'58"	3007	2231	776	
	73°04'00"	37°34'06"	3003	2174	829	
YG6- 35	73°03'58"	37°31'59"	3005			
	73°03'55"	37°30'08"	3001	2107	894	
YG6- 36	73°03'52"	37°28'03"	2998	2070	928	
	73°03'50"	37°26'07"	2999	2027	927	
YG6- 37	73°03'48"	37°24'06"	2992	1624	1368	
	73°03'45"	37°22'13"	2988	1526	1462	
YG6- 38	73°03'41"	37°20'22"	2973	1467	1506	
	73°03'37"	37°18'26"	2959	1298	1661	
YG6- 39	73°03'33"	37°16'30"	2957	1463	1494	
	73°03'30"	37°14'40"	2955	1489	1466	
YG6- 40	73°03'25"	37°12'45"	2955	1782	1173	
	73°03'23"	37°10'49"	2947	1812	1135	
YG6- 41	73°03'18"	37°08'50"	2942	1843	1099	
	73°03'15"	37°07'05"	2944	1947	997	
YG6- 42	73°03'12"	37°05'01"	2946			
	73°03'10"	37°03'10"	2957			
YG6- 43	73°03'07"	37°01'11"	2959			
	73°03'02"	36°59'26"	2955			
YG6- 44	73°02'57"	36°57'19"	2955	2128	827	
	73°02'54"	36°55'28"	2949	2209	740	
YG6- 45	73°02'51"	36°53'36"	2949			
	73°02'48"	36°51'43"	2946			
YG6- 46	73°05'45"	36°49'45"	2934			
	73°02'43"	36°47'50"	2936			
YG6- 47	73°02'41"	36°45'43"	2936			
	73°02'42"	36°43'33"	2936			
YG6- 48	73°02'44"	36°41'24"	2931			
	73°02'42"	36°39'28"	2931	1802	1129	
YG6- 49	73°02'40"	36°37'28"	2925	1755	1170	
	73°02'37"	36°35'38"	2919	1499	1420	

【 R o u t e Y G 6 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YG6- 50	73° 02' 32"	36° 33' 32"	2927			
	73° 02' 29"	36° 31' 42"	2934			
YG6- 51	73° 02' 25"	36° 29' 47"	2921			
	73° 02' 21"	36° 27' 58"	2921			
YG6- 52	73° 02' 17"	36° 26' 03"	2929			
	73° 02' 13"	36° 24' 21"	2931			
YG6- 53	73° 02' 08"	36° 22' 33"	2927			
	73° 02' 05"	36° 20' 44"	2929			
YG6- 54	73° 02' 00"	36° 18' 37"	2927			
	73° 01' 59"	36° 17' 39"	2912	2165	747	
YG6- 55	73° 01' 59"	36° 16' 41"	2899	2066	833	*
	73° 02' 01"	36° 15' 34"	2893			
YG6- 56	73° 02' 02"	36° 14' 30"	2895	2058	837	
	73° 02' 03"	36° 13' 29"	2898			
YG6- 57	73° 02' 04"	36° 12' 22"	2893			
	73° 02' 05"	36° 11' 17"	2887			
YG6- 58	73° 02' 06"	36° 10' 16"	2887			
	73° 02' 06"	36° 09' 17"	2891			
YG6- 59	73° 02' 08"	36° 08' 07"	2885			
	73° 02' 08"	36° 07' 09"	2887			
YG6- 60	73° 02' 09"	36° 06' 04"	2880	2281	599	
	73° 02' 10"	36° 05' 03"	2881			
YG6- 61	73° 02' 13"	36° 03' 54"	2879			
	73° 02' 09"	36° 03' 04"	2874	2367	507	
YG6- 62	73° 02' 12"	36° 02' 54"	2868			
	73° 02' 14"	36° 00' 48"	2865			
YG6- 63	73° 02' 13"	35° 59' 52"	2864			
	73° 02' 12"	35° 58' 55"	2857			
YG6- 64	73° 02' 12"	35° 57' 54"	2853			
	73° 02' 13"	35° 56' 41"	2848	2075	773	
YG6- 65	73° 02' 16"	35° 55' 27"	2848	1897	951	
	73° 02' 19"	35° 54' 20"	2836	1764	1072	
YG6- 66	73° 02' 19"	35° 53' 21"	2828	1816	1012	
	73° 02' 23"	35° 52' 07"	2820			
YG6- 67	73° 02' 24"	35° 51' 03"	2826			
	73° 02' 24"	35° 50' 05"	2828			
YG6- 68	73° 02' 27"	35° 48' 58"	2823			
	73° 02' 27"	35° 47' 58"	2814			
YG6- 69	73° 02' 28"	35° 46' 52"	2817			
	73° 02' 29"	35° 45' 52"	2808			
YG6- 70	73° 02' 30"	35° 44' 48"	2812	2034	778	
	73° 02' 32"	35° 43' 42"	2804	1973	831	
YG6- 71	73° 02' 32"	35° 42' 38"	2793	1981	812	
	73° 02' 33"	35° 41' 41"	2791	1844	947	
YG6- 72	73° 02' 34"	35° 40' 37"	2771	1867	904	
	73° 02' 34"	35° 39' 41"	2768	1945	823	
YG6- 73	73° 02' 35"	35° 38' 32"	2779			
	73° 02' 36"	35° 37' 35"	2782	2025	757	
YG6- 74	73° 02' 38"	35° 36' 26"	2780			
	73° 02' 03"	35° 35' 34"	2781			

【 R o u t e Y G 6 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YG6- 75	73°01'13"	35°34'04"	2776			
	73°00'30"	35°32'50"	2775			
YG6- 76	72°59'47"	35°31'37"	2767	2059	708	
	72°59'06"	35°30'30"	2758	2117	941	
YG6- 77	72°58'22"	35°29'20"	2756	1926	830	
	72°57'39"	35°28'07"	2749			
YG6- 78	72°56'51"	35°26'46"	2744	1937	807	
	72°56'00"	35°25'12"	2744	1719	1025	
YG6- 79	72°55'19"	35°24'00"	2739	1702	1037	
	72°54'36"	35°22'46"	2737	1645	1092	
YG6- 80	72°53'50"	35°21'28"	2734	1570	1164	
	72°53'06"	35°20'09"	2727	1519	1208	
YG6- 81	72°52'21"	35°18'49"	2719	1578	1141	
	72°51'38"	35°17'41"	2711	1514	1197	
YG6- 82	72°50'58"	35°16'35"	2710	1399	1311	
	72°50'15"	35°15'22"	2706	1333	1373	
YG6- 83	72°49'33"	35°14'09"	2696	1300	1396	
	72°48'48"	35°12'52"	2691	1284	1407	
YG6- 84	72°48'04"	35°11'35"	2681	1156	1525	
	72°47'43"	35°10'23"	2678	936	1742	
YG6- 85	72°47'13"	35°09'22"	2674	1027	1647	*
	72°47'14"	35°10'15"	2663	1041	1622	
YG6- 86	72°47'01"	35°11'59"	2656	1117	1539	
	72°46'41"	35°11'33"	2639	1118	1521	
YG6- 87	72°46'05"	35°11'39"	2613	972	1641	
	72°45'35"	35°11'56"	2608	906	1702	
YG6- 88	72°45'05"	35°12'11"	2603	957	1646	
	72°44'45"	35°12'49"	2600	949	1651	
YG6- 89	72°44'11"	35°12'57"	2586	998	1588	
	72°43'36"	35°12'46"	2580	1039	1541	
YG6- 90	72°43'02"	35°13'08"	2569	951	1618	
	72°42'25"	35°13'01"	2561	984	1577	
YG6- 91	72°41'52"	35°12'55"	2569	1010	1559	
	72°40'37"	35°12'24"	2567	1244	1323	
YG6- 92	72°40'05"	35°12'45"	2576	1301	1275	
	72°39'30"	35°12'45"	2576	1494	1082	
YG6- 93	72°38'55"	35°12'54"	2575	1393	1182	
	72°38'24"	35°13'09"	2569	1240	1329	
YG6- 94	72°37'47"	35°13'12"	2562	1354	1208	
	72°37'14"	35°13'04"	2556	1412	1144	
YG6- 95	72°36'39"	35°13'14"	2560	1293	1267	
	72°36'04"	35°13'13"	2562	1374	1188	
YG6- 96	72°35'32"	35°13'30"	2552	1471	1081	
	72°34'59"	35°13'42"	2549	1478	1071	
YG6- 97	72°34'37"	35°14'19"	2537	1391	1146	
	72°34'18"	35°14'56"	2530	1283	1247	
YG6- 98	72°33'49"	35°15'23"	2512	1201	1311	
	72°33'25"	35°15'53"	2499	1059	1440	
YG6- 99	72°32'48"	35°15'43"	2486	1114	1372	
	72°32'12"	35°15'29"	2480	776	1704	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e Y G 6 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
YG6-100	72°31'35"	35°15'40"	2479	1270	1209	
	72°30'57"	35°15'16"	2472	1377	1095	
YG6-101	72°30'16"	35°14'11"	2460	1330	1130	
	72°29'38"	35°13'44"	2454	1429	1025	
YG6-102	72°28'46"	35°13'29"	2467	1078	1389	
	72°28'35"	35°13'12"	2467	1079	1388	
K 32	72°28'33"	35°13'02"	2468			*

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【Route G】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
G6	73° 6'40"	39°45'31"	3006			*
G 5	73° 6'29"	39°54'47"	3001			
G 10	73° 6'17"	40° 4' 2"	3001			
G 15	73° 6' 6"	40°13'18"	3018			
G 20	73° 5'54"	40°23'33"	3025			
G 25	73° 5'43"	40°32'49"	3020			
G 30	73° 5'31"	40°41' 4"	3020			
G 35	73° 5'20"	40°50'20"	3026			
G 40	73° 5' 8"	41°59'35"	3032			
G 45	73° 4'57"	41° 8'51"	3046			
G 50	73° 4'46"	41°18' 6"	3043			
G 55	73° 4'34"	41°27'22"	3043			
G 60	73° 4'23"	41°36'37"	3038			
G 65	73° 4'11"	41°45'53"	3044			
G 70	73° 4' 0"	41°55' 9"	3046			
G 75	73° 3'48"	42° 4'24"	3051			
G 80	73° 3'37"	42°13'40"	3056			
G 85	73° 3'25"	42°22'55"	3056			
G 90	73° 3'14"	42°32'11"	3051			
G 95	73° 3' 2"	42°41'26"	3050			
G100	73° 2'51"	42°50'42"	3053			
G105	73° 2'40"	42°59'57"	3053			
G110	73° 2'28"	43° 9'13"	3053			
G115	73° 2'17"	43°18'28"	3069			
G120	73° 1' 5"	43°27'44"	3075			
G125	73° 1'54"	43°37' 0"	3063			
G130	73° 1'42"	43°46'15"	3064			
G135	73° 1'31"	43°55'31"	3066			
G140	73° 1'19"	44° 4'46"	3064			
G145	73° 1' 8"	44°14' 2"	3073			
G150	73° 0'57"	44°23'17"	3068			
G155	73° 0'45"	44°32'33"	3067			
G160	73° 0'34"	44°41'48"	3067			
G165	73° 0'22"	44°51' 4"	3066			
A-point	73° 0'13"	44°48'28"	3066			*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【A-point ~ B-point】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A-point	73° 0' 13"	44° 48' 28"	3066			*
A 5	72° 58' 1"	44° 58' 27"	3038			
A 10	72° 55' 49"	44° 58' 26"	3046			
A 15	72° 53' 34"	44° 58' 25"	3021			
A 20	72° 51' 22"	44° 58' 25"	3011			
A 25	72° 49' 10"	44° 58' 24"	2993			
A 30	72° 46' 58"	44° 58' 23"	2977			
A 35	72° 44' 47"	44° 58' 22"	2983			*
A 40	72° 42' 33"	44° 56' 53"	2972			
A 45	72° 40' 19"	44° 55' 24"	2955			
A 50	72° 38' 5"	44° 53' 55"	2953			
A 55	72° 35' 51"	44° 52' 26"	2942			
A 60	72° 33' 37"	44° 50' 57"	2915			
A 65	72° 31' 23"	44° 49' 28"	2909			
A 70	72° 29' 9"	44° 47' 59"	2905			
A 75	72° 26' 55"	44° 46' 30"	2894			*
A 80	72° 24' 23"	44° 47' 57"	2879			
A 85	72° 21' 51"	44° 49' 25"	2865			
A 90	72° 19' 20"	44° 50' 52"	2841			
A 95	72° 16' 48"	44° 52' 19"	2826			
A100	72° 14' 16"	44° 53' 47"	2802			
A105	72° 11' 44"	44° 55' 14"	2794			
A110	72° 9' 12"	44° 56' 41"	2783			
A115	72° 6' 41"	44° 58' 9"	2775			
B-point	72° 5' 55"	44° 58' 35"	2771			*

【Route SY】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SY 0	71°44'15"	35°54'21"	2157	1870	287	YM179*
SY 1	71°44'44"	35°53'34"	2161	1874	287	
SY 2	71°45'15"	35°53'40"	2119	1840	280	
SY 3	71°45'48"	35°53'28"	2098	1782	316	
SY 4	71°46'08"	35°51'58"	2098	1337	761	
SY 5	71°46'31"	35°50'44"	2088	1495	593	
SY 6	71°46'55"	35°49'33"	2081	1775	306	
SY 7	71°47'07"	35°47'60"	2064	1688	375	
SY 8	71°47'17"	35°46'19"	2061	1863	198	
SY 9	71°47'42"	35°45'01"	2063	1687	376	
SY 10	71°47'53"	35°43'22"	2065	1403	662	
SY 11	71°48'05"	35°41'43"	2062	1370	692	
SY 12	71°48'20"	35°40'07"	2066	1473	593	
SY 13	71°48'34"	35°38'31"	2075	1393	682	
SY 14	71°48'56"	35°37'14"	2072	1410	662	
SY 15	71°49'17"	35°35'52"	2071	1290	781	
SY 16	71°49'36"	35°34'26"	2078	1139	939	
SY 17	71°49'55"	35°33'02"	2074	1264	810	
SY 18	71°50'15"	35°31'38"	2071	1271	800	
SY 19	71°50'37"	35°30'21"	2078	1307	771	
SY 20	71°50'55"	35°28'53"	2073	1450	623	
SY 21	71°51'16"	35°27'36"	2072	1370	702	
SY 22	71°51'43"	35°26'39"	2066	1325	741	
SY 23	71°52'13"	35°26'07"	2075	1294	781	
SY 24	71°51'54"	35°24'42"	2069	1328	741	
SY 25	71°51'36"	35°23'11"	2068	1366	702	
SY 26	71°51'17"	35°21'43"	2056	1443	613	
SY 27	71°51'09"	35°19'59"	2045	1432	613	
SY 28	71°51'24"	35°18'11"	2045	1442	603	
SY 29	71°51'50"	35°17'33"	2050	1536	514	
SY 30	71°52'19"	35°16'44"	2053	1529	524	
SY 31	71°52'50"	35°16'30"	2055	1373	682	
SY 32	71°53'20"	35°15'45"	2055	1027	1028	
SY 33	71°53'49"	35°14'60"	2053	1332	721	
SY 34	71°54'19"	35°14'21"	2063	1272	791	
SY 35	71°54'48"	35°13'37"	2068	1268	800	
SY 36	71°55'18"	35°12'57"	2068	1198	870	
SY 37	71°55'48"	35°12'18"	2070	1092	978	
SY 38	71°56'19"	35°11'41"	2070	1289	781	
SY 39	71°56'49"	35°11'11"	2077	1484	593	
SY 40	71°57'21"	35°10'55"	2087		280	
SY 41	71°57'52"	35°10'28"	2102		280	
SY 42	71°58'23"	35°09'59"	2109	1803	306	
SY 43	71°58'55"	35°09'50"	2110	1823	287	
SY 44	71°59'26"	35°10'12"	2120	1636	484	
SY 45	71°59'57"	35°10'22"	2122	1450	672	
SY 46	72°00'29"	35°10'15"	2126	1316	810	
SY 47	72°01'01"	35°09'59"	2132	1075	1057	
SY 48	72°01'32"	35°09'30"	2140	974	1166	
SY 49	72°02'03"	35°09'18"	2143	1036	1107	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e S Y 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
SY 50	72°02'35"	35°09'12"	2146	1049	1097	
SY 51	72°03'07"	35°09'18"	2148	1219	929	
SY 52	72°03'36"	35°10'01"	2163	1422	741	
SY 53	72°04'00"	35°11'05"	2181	1568	613	
SY 54	72°04'28"	35°11'53"	2193	1442	751	*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e B 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
B 1	71° 48'	36° 12' "	2242	402	1840	
B 2	71° 48'	36° 12'	2224	450	1774	
B 3	71° 47'	36° 6'	2217	1043	1174	
B 4	71° 46'	36° 6'	2202	889	1313	
B 5	71° 46'	36° 6'	2182	889	1293	
B 6	71° 45'	36° 0'	2170	718	1452	
B 7	71° 45'	36° 0'	2156	624	1532	
B 8	71° 45'	36° 0'	2144	621	1523	
B 9	71° 45'	35° 54'	2143	325	1818	
B 10	71° 44'	35° 54'	2157			
B 11	71° 44'	35° 48'	2122			
B 12	71° 44'	35° 48'	1991			
B 13	71° 43'	35° 42'	1933	505	1428	
B 14	71° 42'	35° 42'	1918	787	1131	
B 15	71° 41'	35° 36'	1888	727	1161	
B 16	71° 40'	35° 36'	1877	1219	658	
B 17	71° 39'	35° 30'	1857	1009	833	
B 18	71° 38'	35° 30'	1847	1047	800	
B 19	71° 37'	35° 30'	1819	1847	-28	
B 20	71° 36'	35° 30'	1800	889	911	
B 21	71° 35'	35° 30'	1793	655	1138	
B 22	71° 34'	35° 30'	1765	1026	739	
B 23	71° 33'	35° 30'	1750	917	833	
B 24	71° 32'	35° 30'	1740	766	974	
B 25	71° 31'	35° 30'	1724	453	1271	
B 26	71° 30'	35° 24'	1713	587	1126	
B 27	71° 30'	35° 24'	1705	855	850	
B 28	71° 29'	35° 24'	1704	992	712	
B 29	71° 28'	35° 18'	1705			
B 30	71° 28'	35° 18'	1718	1257	461	
B 31	71° 27'	35° 24'	1700			
B 32	71° 26'	35° 18'	1694	1036	658	
B 33	71° 25'	35° 18'	1680	1206	474	
B 34	71° 24'	35° 24'	1663	975	688	
B 35	71° 24'	35° 24'	1649	958	691	
B 36	71° 23'	35° 24'	1635	964	671	
B 37	71° 22'	35° 24'	1632	1385	247	
B 38	71° 21'	35° 24'	1643			
B 39	71° 20'	35° 24'	1638			
B 40	71° 19'	35° 18'	1641			
B 41	71° 20'	35° 24'	1630	855	775	
B 42	71° 21'	35° 24'	1647	906	741	
B 43	71° 20'	35° 30'	1671	1248	423	
B 44	71° 20'	35° 30'	1671	1334	337	
B 45	71° 20'	35° 36'	1685	1471	214	
B 46	71° 21'	35° 36'	1705	1902	-197	
B 47	71° 22'	35° 42'	1743	1937	-194	
B 48	71° 23' 6"	35° 41' 6"	1800	1112	688	

【Route IY】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A.C.	74°12'02"	34°59'08"	3193			
IY 1	74°10'58"	34°59'22"	3178			
IY 2	74°09'53"	34°59'37"	3175			
IY 3	74°08'45"	34°59'47"	3168			
IY 4	74°07'39"	35°00'06"	3159			
IY 5	74°06'33"	35°00'25"	3154			
IY 6	74°05'26"	35°00'40"	3156			
IY 7	74°04'20"	35°00'55"	3156			
IY 8	74°03'14"	35°01'09"	3139			
IY 9	74°02'09"	35°01'24"	3131			
IY 10	74°01'03"	35°01'39"	3129			
IY 11	73°59'56"	35°01'46"	3105			
IY 12	73°58'49"	35°01'54"	3112			
IY 13	73°57'42"	35°02'01"	3110			
IY 14	73°56'36"	35°02'09"	3105			
IY 15	73°55'29"	35°02'17"	3112			
IY 16	73°54'24"	35°02'24"	3117			
IY 17	73°53'18"	35°02'40"	3098			
IY 18	73°52'11"	35°02'47"	3096			
IY 19	73°51'04"	35°02'59"	3110			
IY 20	73°49'57"	35°03'06"	3113			
IY 21	73°48'51"	35°03'18"	3113			
IY 22	73°47'44"	35°03'38"	3062			
IY 23	73°46'38"	35°03'45"	3079			
IY 24	73°45'31"	35°03'57"	3078			
IY 25	73°44'24"	35°04'01"	3071			
IY 26	73°43'18"	35°04'13"	3071			
IY 27	73°42'12"	35°04'16"	3061			
IY 28	73°41'05"	35°04'24"	3033			
IY 29	73°39'55"	35°04'31"	3009			
IY 30	73°38'49"	35°04'37"	2988			
IY 31	73°37'42"	35°04'48"	2983			
IY 32	73°36'34"	35°04'54"	2985			
IY 33	73°35'27"	35°05'05"	2972			
IY 34	73°34'21"	35°05'12"	2975			
IY 35	73°33'12"	35°05'18"	2971			
IY 36	73°32'06"	35°05'25"	2961			
IY 37	73°31'01"	35°05'31"	2948			
IY 38	73°29'55"	35°05'38"	2953			
IY 39	73°28'49"	35°05'44"	2953			
IY 40	73°27'43"	35°05'51"	2952			
IY 41	73°26'36"	35°05'57"	2955			
IY 42	73°25'30"	35°06'08"	2950			
IY 43	73°24'25"	35°06'11"	2924			
IY 44	73°23'21"	35°06'15"	2903			
IY 45	73°22'17"	35°06'19"	2903			
IY 46	73°21'13"	35°06'22"	2904			
IY 47	73°20'09"	35°06'26"	2897			
IY 48	73°19'06"	35°06'33"	2889			
IY 49	73°18'03"	35°06'36"	2881			

【Route IY】

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IY 50	73°16'59"	35°06'40"	2876			
IY 51	73°15'55"	35°06'43"	2871			
IY 52	73°14'51"	35°06'47"	2868			
IY 53	73°13'48"	35°06'50"	2862			
IY 54	73°12'45"	35°06'58"	2849			
IY 55	73°11'41"	35°07'02"	2840			
IY 56	73°10'38"	35°07'08"	2833			
IY 57	73°09'35"	35°07'12"	2831			
IY 58	73°08'31"	35°07'12"	2820			
IY 59	73°07'28"	35°07'15"	2814			
IY 60	73°06'23"	35°07'22"	2808			
IY 61	73°05'20"	35°07'30"	2806			
IY 62	73°04'16"	35°07'33"	2802			
IY 63	73°03'12"	35°07'36"	2796			
IY 64	73°02'08"	35°07'40"	2786			
IY 65	73°01'04"	35°07'43"	2780			
IY 66	72°59'59"	35°07'53"	2773			
IY 67	72°58'55"	35°08'02"	2765			
IY 68	72°57'50"	35°08'16"	2746			
IY 69	72°56'45"	35°08'22"	2733			
IY 70	72°55'43"	35°08'35"	2728			
IY 71	72°54'40"	35°08'48"	2721			
IY 72	72°53'36"	35°08'57"	2719			
IY 73	72°52'31"	35°09'07"	2706			
IY 74	72°51'27"	35°09'16"	2700			
IY 75	72°50'23"	35°09'25"	2692			
IY 76	72°49'17"	35°09'39"	2693			
IY 77	72°48'12"	35°09'10"	2692			
IY 78	72°47'23"	35°06'55"	2645			
IY 79	72°46'18"	35°06'27"	2639			
IY 80	72°45'15"	35°05'18"	2598			
IY 81	72°44'13"	35°04'37"	2596			
IY 82	72°43'12"	35°04'55"	2583			
IY 83	72°42'10"	35°05'24"	2563			
IY 84	72°41'11"	35°06'31"	2569			
IY 85	72°40'09"	35°07'08"	2577			
IY 86	72°39'07"	35°07'33"	2571			
IY 87	72°38'04"	35°08'06"	2558			
IY 88	72°37'01"	35°08'42"	2555			
IY 89	72°35'59"	35°09'08"	2551			
IY 90	72°34'57"	35°08'13"	2530			
IY 91	72°33'54"	35°07'27"	2494			
IY 92	72°32'51"	35°07'56"	2480			
IY 93	72°31'53"	35°09'06"	2468			
IY 94	72°30'55"	35°10'19"	2456			
IY 95	72°29'57"	35°11'29"	2468			95' (K34)

【 R o u t e K R 】				S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
KR 0				2076		RY135*
KR 1	72°31'21"	29°32'02"		2092		
KR 2	72°32'35"	29°32'07"		2100		
KR 3	72°33'30"	29°32'12"		2095		
KR 4	72°34'35"	29°32'17"		2110		
KR 5	72°35'39"	29°32'22"		2129		
KR 6	72°36'43"	29°32'27"		2145		
KR 7	72°37'48"	29°32'32"		2152		
KR 8	72°38'52"	29°32'37"		2144		
KR 9	72°39'58"	29°32'35"		2143		
KR 10	72°41'05"	29°32'32"		2199		
KR 11	72°42'09"	29°32'37"		2234		
KR 12	72°43'13"	29°33'01"		2239		
KR 13	72°44'17"	29°33'06"		2255		
KR 14	72°45'22"	29°33'11"		2272		
KR 15	72°46'26"	29°33'16"		2269		
KR 16	72°47'31"	29°33'21"		2267		
KR 17	72°48'35"	29°33'30"		2276		
KR 18	72°49'39"	29°33'35"		2285		
KR 19	72°50'44"	29°33'40"		2286		*
KR 20	72°51'49"	29°33'34"		2297		
KR 21	72°52'54"	29°33'40"		2296		
KR 22	72°53'57"	29°32'45"		2298		
KR 23	72°55'02"	29°33'02"		2308	1899	
KR 24	72°56'06"	29°33'08"		2328		
KR 25	72°57'11"	29°33'03"		2339	1634 1561	
KR 26	72°58'16"	29°33'01"		2374	1449	

【 R o u t e K R 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation		
KR 27	72°59'21"	29°32'56"	2393	1410	
				1416	
KR 28	73°00'26"	29°32'50"	2397	1402	
				1440	
KR 29	73°01'32"	29°32'45"	2411	1469	
				1446	
KR 30	73°02'37"	29°32'39"	2432	1422	
				1490	
KR 31	73°03'42"	29°32'33"	2450		
KR 32	73°04'47"	29°32'28"	2465		
KR 33	73°05'52"	29°32'38"	2487		
KR 34	73°06'57"	29°32'32"	2516	1506	
KR 35	73°08'02"	29°32'27"	2535		
KR 36	73°09'07"	29°32'21"	2544		
KR 37	73°10'12"	29°32'16"	2557		*
KR 38	73°10'35"	29°35'47"	2543	1457	
				1257	
KR 39	73°10'57"	29°39'19"	2544	1430	
				1436	
KR 40	73°11'19"	29°42'51"	2521		
				1472	
KR 41	73°11'37"	29°46'27"	2523	1439	
				1433	
KR 42	73°11'59"	29°50'00"	2529	1512	
				1591	
KR 43	73°12'19"	29°53'34"	2520	1421	
KR 44	73°12'41"	29°57'06"	2555	1494	
KR 45	73°12'53"	30°00'48"	2578		
KR 46	73°13'15"	30°04'20"	2577		
KR 47	73°13'38"	30°07'52"	2571		
KR 48	73°14'00"	30°11'24"	2566		
KR 49	73°14'27"	30°14'51"	2571		
KR 50	73°14'49"	30°18'23"	2578		
KR 51	73°15'14"	30°21'53"	2585		
KR 52	73°15'36"	30°25'25"	2609		
KR 53	73°15'53"	30°29'04"	2625		

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e K R 】

KR 54	73°16'11"	30°32'41"	2628			
KR 55	73°16'29"	30°36'18"	2628			
KR 56	73°16'51"	30°39'52"	2629			
KR 57	73°17'13"	30°43'25"	2625			*
KR 58	73°17'27"	30°47'07"	2618			
KR 59	73°17'46"	30°50'44"	2635			
KR 60	73°17'59"	30°54'26"	2632			
KR 61	73°18'17"	30°58'04"	2635			
KR 62	73°18'35"	31°01'42"	2653			
KR 63	73°18'51"	31°05'22"	2676			
KR 64	73°19'22"	31°08'43"	2684			
KR 65	73°19'47"	31°12'12"	2708			
KR 66	73°20'06"	31°15'49"	2711			
KR 67	73°20'26"	31°19'26"	2722			
KR 68	73°20'44"	31°23'04"	2729			
KR 69	73°21'04"	31°26'42"	2740			
KR 70	73°21'24"	31°30'18"	2740			
KR 71	73°21'44"	31°33'55"	2743			
KR 72	73°22'04"	31°37'31"	2749			
KR 73	73°22'29"	31°41'03"	2749			
KR 74	73°22'49"	31°44'39"	2748			
KR 75	73°23'09"	31°48'16"	2750			*
KR 76	73°22'43"	31°51'44"	2745			
KR 77	73°22'16"	31°55'11"	2743			
KR 78	73°21'48"	31°58'36"	2747			
KR 79	73°21'22"	32°02'04"	2751			

【 R o u t e K R 】				S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
KR 80	73°21'01"	32°05'38"	2755			
KR 81	73°20'35"	32°09'06"	2756			
KR 82	73°20'07"	32°12'31"	2756			
KR 83	73°19'43"	32°16'01"	2760			
KR 84	73°19'19"	32°19'32"	2754			
KR85	73°18'54"	32°23'01"	2752			
KR 86	73°18'27"	32°26'28"	2747			
KR 87	73°18'04"	32°30'00"	2745			
KR 88	73°17'38"	32°33'27"	2737			
KR 89	73°17'12"	32°36'54"	2736			
KR 90	73°16'40"	32°40'11"	2739			
KR 91	73°16'18"	32°43'44"	2741			
KR 92	73°15'50"	32°47'07"	2736			
KR 93	73°15'18"	32°50'24"	2732			
KR 94	73°14'50"	32°53'47"	2728			
KR 95	73°14'27"	32°57'18"	2735			
KR 96	73°14'03"	33°00'48"	2736			
KR 97	73°13'36"	33°04'14"	2745			
KR 98	73°13'08"	33°07'37"	2747			
KR 99	73°12'42"	33°11'04"	2755			
KR100	73°12'16"	33°14'30"	2748			*
KR101	73°11'34"	33°17'23"	2742			
KR102	73°10'54"	33°20'20"	2734			
KR103	73°10'23"	33°23'36"	2731			
KR104	73°09'46"	33°26'40"	2731			
KR105	73°09'08"	33°29'44"	2734			
KR106	73°08'31"	33°32'47"	2734			

【 R o u t e K R 】				S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
KR107	73° 07' 51"	33° 35' 44"	2725			
KR108	73° 07' 14"	33° 38' 47"	2722			
KR109	73° 06' 37"	33° 41' 51"	2724			
KR110	73° 05' 58"	33° 44' 52"	2727			
KR111	73° 05' 21"	33° 47' 55"	2724			
KR112	73° 04' 44"	33° 50' 58"	2710			
KR113	73° 04' 09"	33° 54' 05"	2697			
KR114	73° 03' 31"	33° 57' 08"	2690	1462		
KR115	73° 02' 51"	34° 00' 04"	2687			
KR116	73° 02' 14"	34° 03' 06"	2690			
KR117	73° 01' 37"	34° 06' 09"	2692			
KR118	73° 01' 01"	34° 09' 15"	2691			
KR119	73° 00' 26"	34° 12' 22"	2694			
KR120	72° 59' 49"	34° 15' 24"	2699			*
KR121	72° 58' 53"	34° 17' 07"	2696			
KR122	72° 57' 57"	34° 18' 51"	2683			
KR123	72° 57' 01"	34° 20' 34"	2662	1251 1372 1204		
KR124	72° 56' 05"	34° 22' 17"	2649	1330		
KR125	72° 55' 09"	34° 23' 60"	2656			
KR126	72° 54' 13"	34° 25' 43"	2650			
KR127	72° 53' 17"	34° 27' 26"	2639			
KR128	72° 52' 21"	34° 29' 08"	2632			
KR129	72° 51' 25"	34° 30' 51"	2621			
KR130	72° 50' 29"	34° 32' 33"	2617			
KR131	72° 49' 33"	34° 34' 16"	2605			
KR132	72° 48' 38"	34° 36' 05"	2594			

【 R o u t e K R 】				S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
KR133	72°47'43"	34°37'47"	2589	1288		
				1212		
KR134	72°46'50"	34°39'48"	2584	1176		
				1002		
KR135	72°46'16"	34°43'01"	2594	907		
				1036		
KR136	72°45'01"	34°43'47"	2589	1036		
				1042		
KR137	72°43'60"	34°44'54"	2584	1120		
				1201		
KR138	72°43'04"	34°46'36"	2583	1154	*	
				1106		
KR139	72°42'04"	34°48'04"	2582	1148		
				1182		
KR140	72°41'11"	34°50'07"	2575	1302		
KR141	72°40'14"	34°51'53"	2572			
KR142	72°39'15"	34°53'30"	2569	1344		
KR143	72°38'15"	34°54'54"	2565	1260		
KR144	72°37'18"	34°56'39"	2559			
KR145	72°36'19"	34°58'11"	2548			
KR146	72°35'21"	34°59'49"	2540	1358		
KR147	72°34'22"	35°01'20"	2532			
KR148	72°33'23"	35°02'51"	2516			
KR149	72°32'27"	35°04'42"	2499			
KR150	72°31'29"	35°06'22"	2498			
KR151	72°30'33"	35°08'13"	2490			
KR152	72°29'35"	35°09'50"	2479	1072		
				910		
KR153	72°28'32"	35°10'45"	2449	1008		
				784		
KR154	72°28'34"	35°13'01"	2472		K32*	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I R 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IM252	74°12'02"	34°59'08"	3198			(A.C.)*
IR 0	74°11'40"	34°57'44"	3193			
IR 1	74°11'19"	34°56'14"	3187			
	74°10'58"	34°54'46"	3188			
IR 2	74°10'37"	34°53'17"	3185			
	74°10'16"	34°51'51"	3178			
IR 3	74°09'54"	34°50'24"	3177			
	74°09'33"	34°48'57"	3172			
IR 4	74°09'11"	34°47'30"	3171			
	74°08'48"	34°46'09"	3170			
IR 5	74°08'25"	34°44'48"	3170			
	74°08'03"	34°43'24"	3173			
IR 6	74°07'41"	34°42'00"	3170			
	74°07'19"	34°40'32"	3167			
IR 7	74°06'58"	34°39'04"	3158			
	74°06'37"	34°37'36"	3157			
IR 8	74°06'16"	34°36'09"	3156			
	74°05'55"	34°34'41"	3156			
IR 9	74°05'34"	34°33'13"	3157			
	74°05'14"	34°31'42"	3153			
IR 10	74°04'54"	34°30'12"	3147			
	74°04'35"	34°28'29"				
IR 11	74°04'15"	34°27'05"	3142			
	74°03'56"	34°25'32"	3141			
IR 12	74°03'37"	34°23'59"	3134			
	74°03'15"	34°22'33"	3130			
IR 13	74°02'54"	34°21'07"	3126			
	74°02'34"	34°19'37"	3128			
IR 14	74°02'13"	34°18'06"	3129			
	74°01'53"	34°16'37"	3130			
IR 15	74°01'32"	34°15'08"	3132			
	74°01'12"	34°13'38"	3134			
IR 16	74°00'52"	34°12'08"	3132			
	74°00'29"	34°10'45"	3127			
IR 17	74°00'07"	34°09'22"	3119			
	73°59'46"	34°07'56"	3116			
IR 18	73°59'24"	34°06'30"	3110			
	73°59'03"	34°05'04"				
IR 19	73°58'41"	34°03'38"	3099			
	73°58'23"	34°02'03"	3092			
IR 20	73°58'05"	34°00'28"	3086			
	73°57'44"	33°58'58"	3070			
IR 21	73°57'24"	33°57'28"	3057			
	73°57'04"	33°55'58"	3060			
IR 22	73°56'44"	33°54'28"	3066			
	73°56'25"	33°52'54"	3063			
IR 23	73°56'07"	33°51'19"	3060			
	73°55'47"	33°49'48"	3057			
IR 24	73°55'27"	33°48'17"	3050			
	73°55'04"	33°47'00"	3048			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e I R 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IR 25	73°54'40"	33°45'43"	3044			
	73°54'19"	33°44'16"	3042			
IR 26	73°53'58"	33°42'49"	3040			
	73°53'38"	33°41'20"	3043			
IR 27	73°53'17"	33°39'50"	3047			
	73°52'56"	33°38'25"	3048			
IR 28	73°52'34"	33°36'59"	3045			
	73°52'14"	33°35'31"	3042			
IR 29	73°51'53"	33°34'03"	3038			
	73°51'33"	33°32'32"	3036			
IR 30	73°51'14"	33°31'02"	3031			
	73°50'51"	33°29'41"	3023			
IR 31	73°50'28"	33°28'20"	3018			
	73°50'07"	33°26'55"	3017			
IR 32	73°49'46"	33°25'29"	3016			
	73°49'25"	33°24'02"	3014			
IR 33	73°49'04"	33°22'34"	3007			
	73°48'43"	33°21'09"	3005			
IR 34	73°48'21"	33°19'44"	3006			
	73°48'00"	33°18'17"	2998			
IR 35	73°47'39"	33°16'51"	2993			
	73°47'18"	33°15'24"	2990			
IR 36	73°46'57"	33°13'58"	2988			
	73°46'35"	33°12'35"	2985			
IR 37	73°46'14"	33°11'11"	2987			
	73°45'52"	33°09'46"	2987			
IR 38	73°45'31"	33°08'21"	2985			
	73°45'10"	33°06'52"	2984			
IR 39	73°44'50"	33°05'24"	2987			
	73°44'28"	33°04'00"	2984			
IR 40	73°44'07"	33°02'37"	2981			
	73°43'47"	33°01'07"	2975			
IR 41	73°43'27"	32°59'37"	2975			
	73°43'04"	32°58'18"	2972			
IR 42	73°42'41"	32°56'59"	2972			
	73°42'21"	32°55'30"	2970			
IR 43	73°42'01"	32°54'02"	2971			
	73°41'39"	32°52'37"	2969			
IR 44	73°41'18"	32°51'13"	2958			
	73°40'55"	32°49'51"	2946			
IR 45	73°40'33"	32°48'30"	2939			
	73°40'09"	32°47'14"	2937			
IR 46	73°39'46"	32°45'58"	2933			
	73°39'25"	32°44'31"	2928			
IR 47	73°39'04"	32°43'04"	2923			
	73°38'43"	32°41'40"	2912			
IR 48	73°38'21"	32°40'15"	2900			
	73°37'56"	32°39'09"	2885			
IR 49	73°37'30"	32°38'03"	2870			
	73°37'08"	32°36'40"	2856			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I R 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
IR 50	73°36'46"	32°35'18"	2846			
	73°36'26"	32°33'48"	2847			
IR 51	73°36'06"	32°32'19"	3848			
	73°35'46"	32°30'52"	2843			
IR 52	73°35'25"	32°29'25"	2843			
	73°35'04"	32°28'01"	2846			
IR 53	73°34'42"	32°26'37"	2842			
	73°34'23"	32°25'08"	2838			
IR 54	73°34'03"	32°23'39"	2831			
	73°33'43"	32°22'10"	2829			
IR 55	73°33'23"	32°20'41"	2826			
	73°33'02"	32°19'16"	2824			
IR 56	73°32'41"	32°17'50"	2822			
	73°32'19"	32°16'29"	2820			
IR 57	73°31'57"	32°15'08"	2816			
	73°31'36"	32°13'42"	2816			
IR 58	73°31'16"	32°12'16"	2812			
	73°30'54"	32°10'52"	2812			
IR 59	73°30'33"	32°09'28"	2810			
	73°30'11"	32°08'05"	2812			
IR 60	73°29'50"	32°06'41"	2808			
	73°29'28"	32°05'19"	2811			
IR 61	73°29'06"	32°03'57"	2804			
	73°28'45"	32°02'33"	2802			
IR 62	73°28'23"	32°01'10"	2798			
	73°28'02"	31°59'46"	2796			
IR 63	73°27'40"	31°58'23"	2798			
	73°27'19"	31°57'01"	2795			
IR 64	73°26'57"	31°55'39"	2793			
	73°26'35"	31°54'15"	2781			
IR 65	73°26'14"	31°52'52"	2777			
	73°25'54"	31°51'24"	2774			
IR 66	73°25'34"	31°49'55"	2767			
	73°25'13"	31°48'31"	2767			
IR 67	73°24'52"	31°47'06"	2764			
	73°24'30"	31°45'47"	2762			
IR 68	73°24'07"	31°44'28"	2762			
	73°23'48"	31°42'57"	2759			
IR 69	73°23'29"	31°41'27"	2758			
	73°23'04"	31°40'17"	2756			
IR 70	73°22'39"	31°39'07"	2755			
KR 72	73°22'04"	31°37'31"	2749			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route ID】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A.C.	74°12'02"	34°59'08"	3193			
ID 1	74°13'12"	34°59'08"	3204			
ID 2	74°14'22"	34°58'56"	3212			
ID 3	74°15'31"	34°58'40"	3213			
ID 4	74°16'40"	34°58'32"	3214			
ID 5	74°17'47"	34°58'12"	3218			
ID 6	74°18'54"	34°58'00"	3226			
ID 7	74°20'02"	34°57'48"	3230			
ID 8	74°21'12"	34°57'31"	3233			
ID 9	74°22'20"	34°57'19"	3240			
ID 10	74°23'27"	34°57'16"	3247			
ID 11	74°24'35"	34°57'04"	3251			
ID 12	74°25'43"	34°56'48"	3254			
ID 13	74°26'50"	34°56'32"	3261			
ID 14	74°27'57"	34°56'16"	3265			
ID 15	74°29'05"	34°56'08"	3269			
ID 16	74°30'12"	34°55'56"	3277			
ID 17	74°31'19"	34°55'54"	3301			
ID 18	74°32'26"	34°56'04"	3313			
ID 19	74°33'34"	34°56'10"	3320			
ID 20	74°34'41"	34°56'16"	3319			
ID 21	74°35'48"	34°56'22"	3329			
ID 22	74°36'54"	34°56'28"	3343			
ID 23	74°38'02"	34°56'38"	3354			
ID 24	74°39'10"	34°56'49"	3350			
ID 25	74°40'18"	34°56'55"	3357			
ID 26	74°41'25"	34°57'01"	3350			
ID 27	74°42'33"	34°57'07"	3338			
ID 28	74°43'40"	34°57'13"	3329			
ID 29	74°44'47"	34°57'23"	3333			
ID 30	74°45'55"	34°57'29"	3336			
ID 31	74°47'02"	34°57'31"	3340			
ID 32	74°48'09"	34°57'37"	3345			
ID 33	74°49'16"	34°57'39"	3350			
ID 34	74°50'23"	34°57'49"	3371			
ID 35	74°51'28"	34°58'11"	3409			
ID 36	74°52'32"	34°58'27"	3428			
ID 37	74°53'35"	34°58'43"	3425			
ID 38	74°54'37"	34°59'00"	3422			
ID 39	74°55'42"	34°59'25"	3425			
ID 40	74°56'47"	34°59'50"	3422			
ID 41	74°57'50"	35°00'15"	3409			
ID 42	74°58'55"	35°00'36"	3400			
ID 43	74°59'59"	35°00'57"	3396			(γ5)*
	75°00'33"	35°01'03"				
ID 44	75°01'06"	35°00'59"	3401			
	75°01'38"	35°01'01"	3414			
ID 45	75°02'10"	35°01'04"	3416			
	75°02'42"	35°01'05"	3430			
ID 46	75°03'14"	35°01'06"	3441			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID 47	75°03'44"	35°01'07"	3450			
	75°03'31"	35°01'06"				
	75°04'06"	35°01'07"				
ID 48	75°04'40"	35°01'13"	3459			
	75°05'14"	35°01'10"	3465			
ID 49	75°05'49"	35°01'06"	3467			
	75°05'51"	35°01'05"	3475			
ID 50	75°06'28"	35°01'11"	3478			
	75°07'06"	35°01'12"	3478			
ID 51	75°07'41"	35°01'17"	3476			
	75°08'18"	35°01'18"	3476			
ID 52	75°08'58"	35°01'20"	3478			
	75°09'31"	35°01'17"	3480			
ID 53	75°10'08"	35°01'13"	3483			
	75°10'45"	35°01'15"	3487			
ID 54	75°11'22"	35°01'18"	3487			
	75°11'59"	35°01'13"	3486			
ID 55	75°12'36"	35°01'14"	3483			
	75°13'13"	35°01'15"	3486			
ID 56	75°13'50"	35°01'16"	3487			*
	75°14'22"	35°01'06"	3488			
ID 57	75°14'54"	35°01'14"	3485			
	75°15'29"	35°01'21"	3489			
ID 58	75°15'58"	35°01'16"	3491			
	75°16'30"	35°01'18"	3491			
ID 59	75°17'03"	35°01'19"	3495			
	75°17'35"	35°01'21"	3500			
ID 60	75°18'07"	35°01'15"	3505			
	75°18'43"	35°01'05"	3511			
ID 61	75°19'13"	35°01'04"	3515			
	75°19'46"	35°00'54"	3517			
ID 62	75°20'17"	35°00'49"	3516			
	75°20'52"	35°00'44"	3517			
ID 63	75°21'24"	35°00'43"	3517			
	75°21'56"	35°00'33"	3521			
ID 64	75°22'29"	35°00'28"	3524			
	75°23'02"	35°00'23"	3526			
ID 65	75°23'34"	35°00'22"	3525			
	75°24'06"	35°00'21"	3529			
ID 66	75°24'38"	35°00'21"	3530			
	75°24'51"	35°00'18"	3534			
ID 67	75°25'25"	35°00'17"	3538			
	75°26'00"	35°00'16"	3542			
ID 68	75°26'34"	35°00'16"	3544			
	75°26'58"	35°00'13"	3547			
ID 69	75°27'35"	35°00'07"	3546			
	75°28'11"	35°00'02"	3548			
ID 70	75°28'43"	34°59'59"	3551			
	75°29'21"	34°59'49"	3552			
ID 71	75°30'00"	34°59'42"	3550			*

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	75°30'32"	34°59'42"	3555			
ID 72	75°31'02"	34°59'42"	3556			
	75°31'35"	34°59'36"	3557			
ID 73	75°32'08"	34°59'29"	3561			
	75°32'41"	34°59'34"	3561			
ID 74	75°33'12"	34°59'30"	3563			
	75°33'44"	34°59'32"	3568			
ID 75	75°34'17"	34°59'26"	3570			
	75°34'49"	34°59'19"	3573			
ID 76	75°35'21"	34°59'20"	3576			
	75°35'53"	34°59'15"	3582			
ID 77	75°36'25"	34°59'16"	3585			
	75°36'58"	34°59'18"	3591			
ID 78	75°36'51"	34°59'16"	3599			
	75°37'24"	34°59'19"	3605			
ID 79	75°37'58"	34°59'14"	3610			
	75°38'32"	34°59'15"	3612			
ID 80	75°39'06"	34°59'06"	3616			
	75°39'09"	34°59'04"	3619			
ID 81	75°39'45"	34°59'04"	3619			
	75°40'20"	34°59'07"	3618			
ID 82	75°40'56"	34°59'07"	3621			
	75°41'31"	34°58'58"	3618			
ID 83	75°42'08"	34°58'52"	3618			
	75°42'43"	34°58'52"	3620			
ID 84	75°43'19"	34°58'45"	3619			
	75°43'54"	34°58'50"	3618			
ID 85	75°44'30"	34°58'55"	3626			
	75°45'07"	34°58'56"	3628			
ID 86	75°45'43"	34°59'03"	3630			
	75°46'18"	34°59'05"	3630			
ID 87	75°46'54"	34°59'13"	3631			
	75°47'31"	34°59'13"	3635			
ID 88	75°48'09"	34°59'23"	3638			
	75°48'44"	34°59'26"	3637			
ID 89	75°49'23"	34°59'24"	3642			*
	75°49'57"	34°59'26"	3644			
ID 90	75°50'28"	34°59'28"	3648			
	75°51'00"	34°59'29"	3656			
ID 91	75°51'32"	34°59'31"	3656			
	75°51'15"	34°59'31"	3660			
ID 92	75°51'50"	34°59'35"	3657			
	75°52'26"	34°59'39"	3658			
ID 93	75°53'01"	34°59'41"	3659			
	75°53'36"	34°59'43"	3655			
ID 94	75°54'11"	34°59'44"	3655			
	75°54'47"	34°59'41"	3652			
ID 95	75°55'21"	34°59'46"	3652			
	75°55'34"	34°59'45"	3654			
ID 96	75°56'12"	34°59'47"	3655			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route ID】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID 97	75°56'50"	34°59'48"	3652			
	75°57'28"	34°59'53"	3654			
	75°58'06"	34°59'59"	3654			
ID 98	75°58'45"	34°59'56"	3654			
	75°59'20"	34°59'56"	3655			
ID 99	76°00'02"	34°59'55"	3657			*
	75°59'31"	34°59'54"	3662			
ID100	76°00'04"	34°59'58"	3664			
	76°00'39"	35°00'01"	3668			
ID101	76°01'13"	34°59'56"	3665			
	76°01'47"	34°59'59"	3667			
ID102	76°02'22"	34°59'53"	3673			
	76°02'57"	34°59'50"	3673			
ID103	76°03'30"	34°59'51"	3673			
	76°04'05"	34°59'55"	3676			
ID104	76°03'57"	34°59'54"	3676			
	76°03'53"	34°59'53"	3671			
ID105	76°04'32"	34°59'47"	3672			
	76°05'11"	34°59'39"	3671			
ID106	76°05'49"	34°59'41"	3672			
	76°06'28"	34°59'37"	3672			
ID107	76°07'06"	34°59'41"	3675			
	76°07'18"	34°59'40"	3676			
ID108	76°07'59"	34°59'36"	3676			
	76°08'40"	34°59'31"	3678			
ID109	76°09'01"	34°59'30"	3680			
	76°09'27"	34°59'29"	3682			
ID110	76°10'12"	34°59'23"	3683			
	76°10'59"	34°59'20"	3682			
ID111	76°11'45"	34°59'21"	3685			
	76°12'32"	34°59'25"	3688			
ID112	76°13'11"	34°59'24"	3690			
	76°13'58"	34°59'20"	3693			
ID113	76°14'44"	34°59'19"	3697			
	76°15'35"	34°59'11"	3699			*
ID114	76°16'07"	34°59'01"	3702			
	76°16'39"	34°58'58"	3705			
ID115	76°17'12"	34°58'50"	3706			
	76°17'44"	34°58'40"	3707			
ID116	76°17'20"	34°58'35"	3708			
	76°17'53"	34°58'32"	3709			
ID117	76°18'27"	34°58'24"	3710			
	76°19'01"	34°58'14"	3712			
ID118	76°19'34"	34°58'01"	3719			
	76°20'09"	34°57'53"	3721			
ID119	76°20'43"	34°57'45"	3719			
	76°21'16"	34°57'38"	3719			
ID120	76°21'50"	34°57'35"	3715			
	76°22'24"	34°57'25"	3711			
ID121	76°22'57"	34°57'22"	3713			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	76°23'32"	34°57'19"	3716			
ID122	76°24'05"	34°57'16"	3715			
	76°24'38"	34°57'17"	3718			
ID123	76°25'12"	34°57'05"	3718			
	76°25'45"	34°56'57"	3719			
ID124	76°26'18"	34°56'54"	3722			
	76°26'52"	34°56'44"	3726			
ID125	76°27'27"	34°56'51"	3728			
	76°28'01"	34°56'50"	3730			
ID126	76°28'14"	34°56'45"	3732			
	76°28'50"	34°56'42"	3736			
ID127	76°29'08"	34°56'37"	3740			
	76°29'45"	34°56'34"	3743			
ID128	76°30'23"	34°56'38"	3745			
	76°30'48"	34°56'33"	3747			
ID129	76°31'17"	34°56'27"	3747			
	76°31'58"	34°56'29"	3747			
ID130	76°32'39"	34°56'31"	3751			
	76°33'14"	34°56'26"	3750			
ID131	76°33'56"	34°56'33"	3748			
	76°34'39"	34°56'37"	3748			
ID132	76°35'21"	34°56'34"	3747			*
	76°35'54"	34°56'31"	3752			
ID133	76°36'26"	34°56'28"	3755			
	76°36'58"	34°56'27"	3759			
ID134	76°37'30"	34°56'26"	3760			
	76°38'02"	34°56'18"	3763			
ID135	76°38'36"	34°56'20"	3762			
	76°39'07"	34°56'17"	3763			
ID136	76°39'39"	34°56'19"	3763			
	76°40'11"	34°56'11"	3763			
ID137	76°40'43"	34°56'08"	3765			
	76°41'16"	34°56'10"	3764			
ID138	76°41'48"	34°56'09"	3762			
	76°42'20"	34°56'11"	3763			
ID139	76°42'13"	34°56'05"	3765			
	76°42'47"	34°55'55"	3767			
ID140	76°43'21"	34°55'59"	3766			
	76°43'55"	34°55'58"	3766			
ID141	76°44'29"	34°55'58"	3767			
	76°45'03"	34°55'59"	3766			
ID142	76°45'37"	34°56'04"	3768			
	76°46'11"	34°56'03"	3767			
ID143	76°46'45"	34°56'02"	3773			
	76°47'19"	34°56'07"	3776			
ID144	76°47'53"	34°56'06"	3738			
	76°48'27"	34°56'03"	3777			
ID145	76°49'01"	34°56'00"	3781			
	76°49'35"	34°56'04"	3781			
ID146	76°50'09"	34°56'03"	3781			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route ID】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
	76°50'43"	34°56'10"	3783			
ID147	76°51'16"	34°56'12"	3784			
	76°51'52"	34°56'14"	3783			
ID148	76°52'24"	34°56'13"	3783			
	76°52'58"	34°56'05"	3785			
ID149	76°53'32"	34°55'57"	3785			
	76°54'06"	34°56'02"	3787			
ID150	76°54'40"	34°55'56"	3787			*
	76°55'13"	34°56'20"	3788			
ID151	76°55'44"	34°56'44"	3786			
	76°56'16"	34°57'08"	3784			
ID152	76°56'49"	34°57'34"	3780			
	76°57'21"	34°57'58"	3780			
ID153	76°57'53"	34°58'24"	3775			
	76°58'25"	34°58'48"	3773			
ID154	76°58'57"	34°59'09"	3768			
	76°59'29"	34°59'31"	3767			
ID155	77°00'01"	35°00'00"	3761			(D.C.)*
ID156	76°59'57"	34°55'12"	3757			
ID157	76°59'52"	34°50'24"	3758			
ID158	76°59'50"	34°45'36"	3758			
ID159	76°59'48"	34°40'49"	3754			
ID160	76°59'46"	34°36'01"	3751			
ID161	76°59'42"	34°31'13"	3752			
ID162	76°59'38"	34°26'25"	3749			
ID163	76°59'37"	34°21'38"	3748			
ID164	76°59'32"	34°16'50"	3744			
ID165	76°59'20"	34°12'06"	3747			
ID166	76°59'15"	34°07'18"	3746			
ID167	76°59'07"	34°02'32"	3743			
ID168	76°59'06"	33°57'44"	3742			
ID169	76°59'06"	33°52'57"	3741			
ID170	76°59'05"	33°48'10"	3745			
ID171	76°59'02"	33°43'23"	3745			
ID172	76°59'01"	33°38'36"	3744			
ID173	76°59'03"	33°33'49"	3740			
ID174	76°59'04"	33°29'02"	3740			
ID175	76°59'03"	33°24'15"	3739			
ID176	76°59'07"	33°19'30"	3740			
ID177	76°59'06"	33°14'43"	3739			
ID178	76°59'05"	33°09'55"	3740			
ID179	76°58'57"	33°05'09"	3739			
ID180	76°58'54"	33°00'22"	3738			
ID181	76°58'53"	32°55'35"	3743			
ID182	76°58'53"	32°50'49"	3740			
ID183	76°58'55"	32°46'02"	3742			
ID184	76°58'51"	32°41'15"	3736			
ID185	76°58'51"	32°36'28"	3738			
ID186	76°58'56"	32°31'43"	3737			
ID187	76°58'55"	32°26'57"	3734			

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

【Route ID】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID188	76°58'55"	32°22'10"	3735			
ID189	76°59'00"	32°17'25"	3736			
ID190	76°58'59"	32°12'38"	3734			
ID191	76°58'57"	32°07'15"	3734			
ID192	76°58'52"	32°03'05"	3733			
ID193	76°58'47"	31°58'18"	3733			
ID194	76°58'45"	31°53'31"	3735			
ID195	76°58'41"	31°48'45"	3734			
ID196	76°58'38"	31°43'58"	3731			
ID197	76°58'35"	31°39'11"	3737			
ID198	76°58'29"	31°34'25"	3739			
ID199	76°58'25"	31°29'38"	3737			
ID200	76°58'21"	31°24'51"	3737			
ID201	76°58'17"	31°20'05"	3734			
ID202	76°58'14"	31°15'18"	3730			
ID203	76°58'09"	31°10'32"	3730			
ID204	76°58'05"	31°05'46"	3727			
ID205	76°57'56"	31°01'01"	3730			(γ7)*
ID206	76°56'37"	31°01'41"	3733			
ID207	76°55'28"	31°02'11"	3736			
ID208	76°54'29"	31°02'42"	3739			
ID209	76°53'20"	31°03'27"	3741			
ID210	76°52'11"	31°04'07"	3746			
ID211	76°51'03"	31°04'52"	3749			
ID212	76°49'54"	31°05'47"	3749			
ID213	76°48'45"	31°06'12"	3750			
ID214	76°47'37"	31°06'47"	3752			
ID215	76°46'28"	31°07'32"	3754			
ID216	76°45'19"	31°08'12"	3757			
ID217	76°44'11"	31°09'17"	3757			
ID218	76°43'02"	31°10'11"	3754			
ID219	76°41'54"	31°10'27"	3757			
ID220	76°40'45"	31°11'02"	3751			
ID221	76°39'36"	31°11'42"	3754			
ID222	76°38'27"	31°12'07"	3749			
ID223	76°37'19"	31°13'02"	3747			
ID224	76°36'10"	31°13'51"	3750			
ID225	76°35'01"	31°14'12"	3746			
ID226	76°33'53"	31°15'25"	3744			
ID227	76°32'45"	31°16'00"	3744			
ID228	76°31'36"	31°16'45"	3743			
ID229	76°30'27"	31°17'20"	3741			
ID230	76°31'18"	31°17'50"	3738			
ID231	76°30'14"	31°18'25"	3738			
ID232	76°29'10"	31°19'10"	3736			*
ID233	76°27'57"	31°18'55"	3735			
ID234	76°26'43"	31°18'59"	3731			
ID235	76°25'29"	31°19'22"	3731			
ID236	76°24'15"	31°19'31"	3728			
ID237	76°23'01"	31°19'26"	3729			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID238	76°21'47"	31°19'49"	3729			
ID239	76°20'33"	31°20'02"	3724			
ID240	76°19'19"	31°20'11"	3719			
ID241	76°18'05"	31°20'20"	3721			
ID242	76°16'51"	31°20'30"	3719			
ID243	76°15'37"	31°20'29"	3717			
ID244	76°14'23"	31°20'52"	3712			
ID245	76°13'10"	31°20'29"	3708			
ID246	76°11'56"	31°20'43"	3705			
ID247	76°10'41"	31°21'06"	3701			
ID248	76°09'27"	31°21'15"	3693			
ID249	76°08'13"	31°21'48"	3685			
ID250	76°06'59"	31°22'02"	3674			
ID251	76°05'45"	31°22'16"	3667			
ID252	76°04'31"	31°22'16"	3671			
ID253	76°04'57"	31°22'44"	3671			
ID254	76°03'49"	31°22'35"	3667			
ID255	76°02'40"	31°22'35"	3663			
ID256	76°03'25"	31°23'03"	3664			
ID257	76°02'21"	31°23'03"	3661			
ID258	76°01'16"	31°23'12"	3654			
ID259	76°00'12"	31°23'17"	3648			(γ 8) *
ID260	75°58'51"	31°23'20"	3651			
ID261	75°57'31"	31°23'17"	3649			
ID262	75°56'17"	31°23'29"	3650			
ID263	75°54'59"	31°23'50"	3642			
ID264	75°53'40"	31°24'16"	3641			
ID265	75°52'22"	31°24'33"	3636			
ID266	75°51'04"	31°24'58"	3633			
ID267	75°49'46"	31°25'01"	3631			
ID268	75°48'27"	31°24'59"	3627			
ID269	75°47'09"	31°24'57"	3624			
ID270	75°45'51"	31°24'55"	3626			
ID271	75°44'32"	31°25'16"	3624			
ID272	75°43'14"	31°25'42"	3623			
ID273	75°41'56"	31°25'58"	3625			
ID274	75°40'37"	31°26'01"	3622			
ID275	75°39'19"	31°25'59"	3621			
ID276	75°38'40"	31°26'11"	3612			
ID277	75°37'24"	31°26'09"	3608			
ID278	75°36'08"	31°26'12"	3608			
ID279	75°34'52"	31°26'01"	3602			
ID280	75°33'36"	31°25'55"	3588			
ID281	75°32'20"	31°26'20"	3576			
ID282	75°31'04"	31°26'27"	3573			
ID283	75°29'48"	31°26'44"	3573			
ID284	75°28'32"	31°26'51"	3573			
ID285	75°28'16"	31°27'03"	3574			
ID286	75°28'05"	31°27'15"	3575			
ID287	75°26'53"	31°27'31"	3575			

【 R o u t e I D 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID288	75°25'42"	31°27'39"	3570			
ID289	75°24'30"	31°27'41"	3562			
ID290	75°23'19"	31°27'40"	3559			
ID291	75°22'08"	31°27'47"	3560			
ID292	75°20'56"	31°27'50"	3555			
ID293	75°19'45"	31°27'58"	3550			
ID294	75°18'33"	31°28'05"	3540			
ID295	75°17'22"	31°28'13"	3536			
ID296	75°16'10"	31°28'11"	3534			
ID297	75°16'27"	31°28'23"	3536			
ID298	75°15'17"	31°28'30"	3534			
ID299	75°14'08"	31°28'55"	3531			
ID300	75°14'34"	31°29'07"	3533			
ID301	75°13'27"	31°28'57"	3536			
ID302	75°12'20"	31°29'05"	3529			
ID303	75°11'14"	31°29'12"	3520			
ID304	75°10'07"	31°29'19"	3507			
ID305	75°09'00"	31°29'14"	3487			
ID306	75°09'42"	31°29'26"	3478			
ID307	75°08'37"	31°29'24"	3474			
ID308	75°07'33"	31°29'27"	3472			
ID309	75°06'28"	31°29'26"	3459			
ID310	75°05'24"	31°29'29"	3439			
ID311	75°04'19"	31°29'32"	3432			
ID312	75°03'21"	31°30'04"	3427			
ID313	75°02'17"	31°29'49"	3425			
ID314	75°01'13"	31°29'48"	3420			
ID315	75°00'09"	31°29'21"	3414			(7 9) *
ID316	74°58'53"	31°29'18"	3409			
ID317	74°57'43"	31°29'32"	3406			
ID318	74°56'30"	31°29'55"	3397			
ID319	74°55'17"	31°30'14"	3389			
ID320	74°54'04"	31°30'41"	3377			
ID321	74°52'51"	31°31'00"	3372			
ID322	74°51'37"	31°31'19"	3366			
ID323	74°50'25"	31°32'03"	3362			
ID324	74°49'12"	31°32'30"	3355			
ID325	74°47'59"	31°32'49"	3344			
ID326	74°46'45"	31°33'12"	3340			
ID327	74°45'32"	31°33'30"	3335			
ID328	74°44'19"	31°33'40"	3331			
ID329	74°43'06"	31°33'59"	3322			
ID330	74°41'53"	31°34'26"	3313			
ID331	74°40'40"	31°34'49"	3313			
ID332	74°39'27"	31°34'59"	3310			
ID333	74°39'05"	31°35'13"	3302			
ID334	74°37'55"	31°35'40"	3294			
ID335	74°36'45"	31°35'46"	3285			
ID336	74°36'35"	31°36'01"	3283			
ID337	74°35'28"	31°36'19"	3276			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID338	74°34'20"	31°36'29"	3276			
ID339	74°33'13"	31°36'39"	3275			
ID340	74°32'05"	31°36'49"	3274			
ID341	74°30'58"	31°37'25"	3264			
ID342	74°29'51"	31°37'47"	3246			
ID343	74°28'44"	31°38'23"	3236			
ID344	74°29'00"	31°38'37"	3237			
ID345	74°27'55"	31°38'56"	3229			
ID346	74°26'51"	31°39'18"	3214			
ID347	74°25'46"	31°39'37"	3200			
ID348	74°24'42"	31°40'04"	3183			
ID349	74°23'37"	31°40'14"	3173			
ID350	74°22'33"	31°40'24"	3170			
ID351	74°21'28"	31°40'26"	3164			
ID352	74°20'24"	31°40'36"	3153			
ID353	74°19'19"	31°40'46"	3148			
ID354	74°18'15"	31°40'56"	3142			
ID355	74°17'10"	31°41'15"	3132			
ID356	74°16'06"	31°41'17"	3120			
ID357	74°15'01"	31°41'18"	3111			
ID358	74°13'57"	31°41'45"	3100			
ID359	74°12'52"	31°42'12"	3094			
ID360	74°11'48"	31°42'47"	3092			(γ 10) *
ID361	74°11'44"	31°46'43"	3093			
ID362	74°11'46"	31°50'41"	3094			
ID363	74°11'44"	31°54'38"	3091			
ID364	74°11'44"	31°58'36"	3086			
ID365	74°11'48"	32°02'33"	3077			
ID366	74°11'48"	32°06'31"	3076			
ID367	74°11'48"	32°10'29"	3099			
ID368	74°11'48"	32°14'26"	3130			
ID369	74°11'50"	32°18'24"	3144			
ID370	74°11'56"	32°22'21"	3148			
ID371	74°11'59"	32°26'19"	3156			
ID372	74°11'56"	32°30'16"	3160			
ID373	74°11'52"	32°34'13"	3165			
ID374	74°11'57"	32°38'11"	3171			
ID375	74°11'56"	32°42'08"	3169			
ID376	74°11'53"	32°46'05"	3165			
ID377	74°11'50"	32°50'02"	3168			
ID378	74°11'49"	32°54'00"	3170			
ID379	74°11'46"	32°57'57"	3180			
ID380	74°11'46"	33°01'55"	3186			
ID381	74°11'49"	33°05'52"	3187			
ID382	74°12'00"	33°09'49"	3185			
ID383	74°11'56"	33°13'46"	3182			
ID384	74°11'59"	33°17'44"	3179			
ID385	74°11'58"	33°21'41"	3177			
ID386	74°11'55"	33°25'38"	3179			
ID387	74°11'49"	33°29'35"	3184			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e I D 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
ID388	74°11'47"	33°33'32"	3186			
ID389	74°11'49"	33°37'30"	3184			
ID390	74°11'46"	33°41'27"	3183			
ID391	74°11'40"	33°45'23"	3179			
ID392	74°11'37"	33°49'20"	3177			
ID393	74°11'40"	33°53'18"	3174			
ID394	74°11'43"	33°57'16"	3180			
ID395	74°11'42"	34°01'14"	3184			
ID396	74°11'35"	34°05'09"	3188			
ID397	74°11'29"	34°09'05"	3188			
ID398	74°11'22"	34°13'00"	3191			
ID399	74°11'14"	34°16'55"	3198			
ID400	74°11'17"	34°20'53"	3201			
ID401	74°11'16"	34°24'51"	3201			
ID402	74°11'22"	34°28'49"	3200			
ID403	74°11'18"	34°32'46"	3196			
ID404	74°11'19"	34°36'44"	3192			
ID405	74°11'14"	34°40'40"	3192			
ID406	74°11'14"	34°44'38"	3191			
ID407	74°11'15"	34°48'36"	3189			
ID408	74°11'18"	34°52'34"	3190			
ID409	74°11'42"	34°56'18"	3196			
	74°11'57"	34°58'08"	3199			(ID409')
IM252	74°12'02"	34°59'08"	3198			(A.C.)*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e D F 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
DF 1	77° 00' 02"	35° 04' 43"	3762			
DF 2	77° 00' 07"	35° 09' 32"	3761			
DF 3	77° 00' 12"	35° 14' 21"	3760			
DF 4	77° 00' 08"	35° 19' 10"	3764			
DF 5	77° 00' 07"	35° 23' 59"	3766			
DF 6	77° 00' 04"	35° 28' 49"	3767			
DF 7	77° 00' 08"	35° 33' 38"	3765			
DF 8	77° 00' 07"	35° 38' 28"	3766			
DF 9	77° 00' 04"	35° 43' 17"	3767			
DF 10	77° 00' 03"	35° 48' 07"	3768			
DF 11	77° 00' 00"	35° 52' 49"	3766			
DF 12	76° 59' 58"	35° 57' 46"	3770			
DF 13	76° 59' 55"	36° 02' 35"	3772			
DF 14	76° 59' 49"	36° 07' 23"	3773			
DF 15	76° 59' 48"	36° 12' 13"	3774			
DF 16	76° 59' 46"	36° 17' 02"	3777			
DF 17	76° 59' 42"	36° 21' 51"	3779			
DF 18	76° 59' 40"	36° 26' 41"	3781			
DF 19	76° 59' 34"	36° 31' 29"	3782			
DF 20	76° 59' 28"	36° 36' 10"	3782			
DF 21	76° 59' 23"	36° 41' 05"	3781			
DF 22	76° 59' 23"	36° 45' 55"	3779			
DF 23	76° 59' 16"	36° 50' 35"	3780			
DF 24	76° 59' 13"	36° 55' 24"	3778			
DF 25	76° 59' 18"	37° 00' 13"	3780			*
DF 26	76° 59' 10"	37° 05' 01"	3783			
DF 27	76° 59' 11"	37° 09' 50"	3785			
DF 28	76° 59' 07"	37° 14' 38"	3782			
DF 29	76° 59' 03"	37° 19' 27"	3783			
DF 30	76° 58' 57"	37° 24' 16"	3786			
DF 31	76° 58' 52"	37° 29' 04"	3787			
DF 32	76° 58' 45"	37° 33' 51"	3788			
DF 33	76° 58' 37"	37° 38' 32"	3785			
DF 34	76° 58' 40"	37° 43' 20"	3785			
DF 35	76° 58' 41"	37° 48' 09"	3786			
DF 36	76° 58' 26"	37° 52' 50"	3786			
DF 37	76° 58' 20"	37° 57' 38"	3789			
DF 38	76° 58' 22"	38° 02' 27"	3789			
DF 39	76° 58' 22"	38° 07' 15"	3786			
DF 40	76° 58' 22"	38° 12' 04"	3785			
DF 41	76° 58' 22"	38° 16' 53"	3787			
DF 42	76° 58' 15"	38° 21' 41"	3789			
DF 43	76° 58' 09"	38° 26' 28"	3789			
DF 44	76° 58' 01"	38° 31' 08"	3793			
DF 45	76° 58' 01"	38° 36' 11"	3795			
DF 46	76° 58' 04"	38° 40' 59"	3795			
DF 47	76° 58' 10"	38° 45' 46"	3795			
DF 48	76° 58' 04"	38° 50' 34"	3794			
DF 49	76° 58' 02"	38° 55' 22"	3791			
DF 50	76° 58' 07"	39° 00' 10"	3789			*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e D F 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
DF 51	76°59'09"	38°39'54"	3794			from DF 46
DF 52	77°00'13"	38°38'49"	3796			
DF 53	77°01'17"	38°37'24"	3797			
DF 54	77°02'20"	38°36'05"	3798			
DF 55	77°03'25"	38°34'54"	3796			
DF 56	77°04'28"	38°33'25"	3797			
DF 57	77°05'18"	38°30'02"	3800			
DF 58	77°06'02"	38°26'36"	3801			
DF 59	77°06'51"	38°23'18"	3802			
DF 60	77°07'37"	38°26'49"	3803			
DF 61	77°08'15"	38°30'49"	3803			
DF 62	77°08'58"	38°34'31"	3803			
DF 63	77°09'42"	38°38'09"	3801		*	
DF 64	77°10'23"	38°41'56"	3803			
DF 65	77°11'09"	38°45'23"	3802			
DF 66	77°11'55"	38°48'53"	3802			
DF 67	77°12'40"	38°52'27"	3804			
DF 68	77°13'21"	38°56'15"	3804			
DF 69	77°14'05"	38°59'53"	3803			
DF 70	77°14'31"	39°04'19"	3801			
DF 71	77°15'02"	39°08'37"	3803			
DF 72	77°15'29"	39°13'04"	3802		*	
DF 73	77°16'22"	39°15'55"	3804			
DF 74	77°17'14"	39°18'50"	3803			
DF 75	77°18'08"	39°21'36"	3808			
DF 76	77°19'01"	39°24'31"	3805			
DF 77	77°19'51"	39°27'39"	3804			
DF 78	77°20'41"	39°30'46"	3807			
DF 79	77°21'34"	39°33'42"	3808			
DF 80	77°22'24"	39°36'50"	3807		*	
DF 81	77°22'32"	39°31'51"	3807			
DF 82	77°22'32"	39°26'53"	3805			
DF 83	77°22'33"	39°21'45"	3804			
DF 84	77°22'34"	39°16'57"	3803			
DF 85	77°22'33"	39°11'59"	3801			
DF 86	77°22'31"	39°07'01"	3801			
DF 87	77°22'32"	39°02'04"	3803			
DF 88	77°22'35"	38°56'59"	3801			
DF 89	77°22'35"	38°52'09"	3799			
DF 90	77°22'35"	38°47'11"	3801			
DF 91	77°22'40"	38°42'14"	3798			
DF 92	77°22'35"	38°37'17"	3794			
DF 93	77°22'29"	38°32'19"	3796			
DF 94	77°22'29"	38°27'22"	3798			
DF 95	77°22'29"	38°22'24"	3798			
DF 96	77°22'30"	38°17'26"	3795			
DF 97	77°22'29"	38°12'28"	3795			
DF 98	77°22'21"	38°07'32"	3795			
DF 99	77°22'20"	38°02'35"	3794			
DF100	77°22'19"	37°57'37"	3790			

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【 R o u t e D F 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
DF101	77°22'19"	37°52'39"	3790			
DF102	77°22'15"	37°47'42"	3787			
DF103	77°22'11"	37°42'44"	3789			
DF104	77°22'12"	37°37'47"	3788			*
DF105	77°22'09"	37°32'49"	3788			
DF106	77°22'12"	37°27'52"	3786			
DF107	77°22'12"	37°22'43"	3784			
DF108	77°22'15"	37°17'57"	3780			
DF109	77°22'12"	37°12'58"	3779			
DF110	77°22'10"	37°08'00"	3776			
DF111	77°22'14"	37°03'04"	3778			
DF112	77°22'14"	36°58'06"	3778			
DF113	77°22'12"	36°53'08"	3778			
DF114	77°22'13"	36°48'10"	3772			
DF115	77°22'11"	36°43'12"	3771			
DF116	77°22'08"	36°38'14"	3770			
DF117	77°22'14"	36°33'18"	3767			
DF118	77°22'09"	36°28'20"	3766			
DF119	77°22'06"	36°23'22"	3765			
DF120	77°22'12"	36°18'27"	3765			
DF121	77°22'11"	36°13'29"	3764			
DF122	77°22'13"	36°08'32"	3764			
DF123	77°22'18"	36°03'35"	3763			
DF124	77°22'22"	35°58'39"	3764			
DF125	77°22'18"	35°53'41"	3763			
DF126	77°22'15"	35°48'43"	3763			
DF127	77°22'17"	35°43'46"	3763			
DF128	77°22'13"	35°38'48"	3762			
DF129	77°22'10"	35°33'51"	3761			
DF130	77°22'07"	35°28'53"	3761			
DF131	77°22'09"	35°23'56"	3760			
DF132	77°22'07"	35°18'58"	3758			*
DF133	77°21'58"	35°14'27"	3758			
DF134	77°21'53"	35°09'57"	3756			
DF135	77°21'52"	35°05'30"	3753			
DF136	77°21'45"	35°01'40"	3748			
DF137	77°19'58"	35°01'33"	3747			
DF138	77°18'11"	35°01'35"	3747			
DF139	77°16'24"	35°02'14"	3758			
DF140	77°16'02"	35°02'39"	3759			
DF141	77°14'26"	35°02'25"	3761			
DF142	77°12'50"	35°01'48"	3760			
DF143	77°11'14"	35°01'34"	3758			
DF144	77°09'38"	35°01'51"	3759			
DF145	77°08'02"	35°01'15"	3758			
DF146	77°06'26"	35°01'09"	3759			
DF147	77°04'49"	35°00'48"	3761			
DF148	77°03'13"	35°00'27"	3761			
DF149	77°01'37"	34°59'58"	3760			
DF150	77°00'01"	35°00'00"	3761			(ID155=D.C.)*

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
YM179	71°44'15"	35°54'21"	2157	287	1870	*
RY 1	71°44'27"	35°50'36"				
RY 2	71°44'38"	35°47'00"				
RY 3	71°44'50"	35°43'36"				
RY 4	71°45'06"	35°40'14"	1945			*
RY 5	71°45'21"	35°36'52"	1943	892	1051	
			1951	768	1183	
RY 6	71°45'32"	35°33'27"	1956	708	1248	
			1959	615	1344	
RY 7	71°45'43"	35°30'02"	1946	533	1413	
			1945	614	1331	
RY 8	71°45'53"	35°26'37"	1933	565	1368	
			1941	800	1141	
RY 9	71°46'03"	35°23'11"	1937	800	1137	
			1932	836	1096	
RY 10	71°46'14"	35°19'46"	1924	864	1060	
			1920	936	984	
RY 11	71°46'36"	35°16'20"	1913	860	1053	
			1917	1225	692	
RY 12	71°47'00"	35°13'08"	1909	1239	670	*
			1908	1224	684	
RY 13	71°47'19"	35°09'50"	1907	1221	686	
			1908	1274	634	
RY 14	71°47'46"	35°06'43"	1909	1215	694	
			1913	1203	710	
RY 15	71°47'54"	35°03'18"	1916	887	1029	
			1918	929	989	
RY 16	71°48'58"	35°02'48"	1920	859	1061	
			1930	738	1192	
RY 17	71°49'59"	35°01'51"	1939	809	1130	
			1938	628	1310	
RY 18	71°50'43"	34°59'20"	1936	536	1400	
			1939	551	1388	
RY 19	71°51'17"	34°56'23"	1942	554	1388	
			1942	600	1342	
RY 20	71°51'57"	34°53'43"	1942	685	1257	
			1944	764	1180	
RY 21	71°52'38"	34°51'03"	1945	779	1166	
			1944	674	1270	
RY 22	71°53'11"	34°48'05"	1943	713	1230	
			1944	811	1133	
RY 23	71°53'32"	34°44'48"	1945	939	1006	
			1947	936	1011	
RY 24	71°53'58"	34°41'39"	1948	903	1045	
			1951	938	1013	
RY 25	71°54'24"	34°38'29"	1954	1090	864	(G9)*
			1956	1360	596	
RY 26	71°54'54"	34°35'26"	1958			

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation		
			1963	1524	439
RY 27	71°55'28"	34°32'30"	1968	1394	574
			1968	1194	774
RY 28	71°55'58"	34°29'27"	1968	1152	816
			1970	1144	826
RY 29	71°56'22"	34°26'14"	1971	1115	856
			1979	967	1012
RY 30	71°56'51"	34°23'08"	1987	970	1017
			1995	1091	904
RY 31	71°57'18"	34°20'00"	2003	1167	836
			2006	1198	808
RY 32	71°58'05"	34°17'39"	2009	1352	657
			2013	1248	765
RY 33	71°58'26"	34°14'21"	2017	1375	642
			2023	1376	647
RY 34	71°58'57"	34°11'20"	2029	1334	695
			2032	1348	684
RY 35	71°59'32"	34°08'26"	2035	1262	773
			2040	1178	862
RY 36	72°00'03"	34°05'23"	2044	1186	858
			2040	1257	783
RY 37	72°00'11"	34°01'55"	2036	1488	548
			2029	1469	560
RY 38	72°00'27"	33°58'32"	2021	1492	529
			2019	1371	648
RY 39	72°00'42"	33°55'08"	2017	1355	662
			2017	1435	582
RY 40	72°00'53"	33°51'41"	2016	1396	620
			2012	1244	768
RY 41	72°01'20"	33°48'32"	2007	1317	690
			2011	1422	589
RY 42	72°02'09"	33°46'17"	2015	1507	508
			2023	1494	529
RY 43	72°03'02"	33°44'26"	2031	1385	646
			2039	1256	783
RY 44	72°03'56"	33°42'32"	2047	1378	669
			2047	1403	644
RY 45	72°04'43"	33°40'15"	2046	1356	690
			2044	1382	662
RY 46	72°05'06"	33°43'30"	2041	1306	735
			2039	1128	911
RY 47	72°05'20"	33°46'54"	2036	1152	884
			2054	1199	855
RY 48	72°05'44"	33°50'07"	2071	1027	1044
			2075	999	1076
RY 49	72°06'13"	33°53'13"	2078	1142	936
			2086	1214	872
RY 50	72°06'41"	33°56'20"	2093	1260	833
			2095	1422	673
RY 51	72°06'59"	33°59'40"	2096	1418	678
			2102	1486	616
RY 52	72°07'49"	34°01'50"	2107	1150	957
			2112	1218	894

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
RY 53	72°08'37"	33°59'33"	2116	1196	920	
			2126	1215	911	
RY 54	72°09'28"	33°57'31"	2136	1535	601	
			2141	1605	536	
RY 55	72°10'23"	33°55'44"	2146	1563	583	*
			2150	1479	671	
RY 56	72°10'56"	33°52'46"	2154	1477	677	
			2157	1447	710	
RY 57	72°11'31"	33°49'53"	2160	1459	701	(G10)*
			2167	1598	569	
RY 58	72°11'60"	33°46'47"	2173	1670	503	
			2172	1528	644	
RY 59	72°12'19"	33°43'29"	2171	1445	726	
			2168	1388	780	
RY 60	72°12'33"	33°40'05"	2165	1285	880	
			2161	1191	970	
RY 61	72°12'41"	33°36'26"	2156	1295	861	
			2151	1229	922	
RY 62	72°12'51"	33°32'60"	2146	1257	889	
			2137	1301	836	
RY 63	72°13'12"	33°29'42"	2127	1247	880	
			2121	1277	844	
RY 64	72°13'06"	33°26'13"	2115	1354	761	*
			2118	1391	727	
RY 65	72°13'34"	33°23'01"	2121	1504	617	
			2125	1621	504	
RY 66	72°14'01"	33°19'47"	2128	1655	473	
			2130	1693	437	
RY 67	72°14'31"	33°16'37"	2131	1746	385	
			2133	1312	821	
RY 68	72°15'06"	33°13'36"	2134			
			2135	1495	640	
RY 69	72°15'36"	33°10'26"	2135	1590	545	
			2140	1612	528	
RY 70	72°16'14"	33°07'33"	2144	1712	432	
			2144	1851	293	
RY 71	72°16'42"	33°04'20"	2144	1907	237	
			2146	1844	302	
RY 72	72°17'14"	33°01'13"	2147	1820	327	
			2153	1674	479	
RY 73	72°17'47"	32°58'08"	2158	1523	635	
			2164	1519	645	
RY 74	72°18'22"	32°55'08"	2169	1581	588	
			2165	1469	696	
RY 75	72°18'58"	32°52'09"	2160	1402	758	
			2163	1348	815	
RY 76	72°19'34"	32°49'09"	2165	1304	861	
			2164	1423	741	
RY 77	72°19'59"	32°45'52"	2162	1532	630	
			2158	1681	477	
RY 78	72°20'19"	32°42'27"	2154	1799	355	
			2157	1869	288	
RY 79	72°20'51"	32°39'20"	2159	1880	279	

【Route RY】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
			2160	1882	278	
RY 80	72°21'21"	32°36'09"	2160	1783	377	
			2163	1772	391	
RY 81	72°21'49"	32°32'56"	2165	1921	244	
			2162	1929	233	
RY 82	72°22'18"	32°29'43"	2158	1960	198	
			2162	1926	236	
RY 83	72°22'49"	32°26'34"	2165	1716	449	
			2168	1747	421	
RY 84	72°23'20"	32°23'25"	2171	1801	370	
			2175	1782	393	
RY 85	72°23'40"	32°20'00"	2178	1810	368	(G11)
			2179	1788	391	
RY 86	72°23'50"	32°16'11"	2179	1788	391	
			2176	1799	377	
RY 87	72°24'11"	32°12'57"	2173	1706	467	
			2175	1585	590	
RY 88	72°24'33"	32°09'45"	2177	1570	607	
			2174	1595	579	
RY 89	72°24'57"	32°06'36"	2170	1599	571	
			2170	1726	444	
RY 90	72°25'21"	32°03'25"	2170	1698	472	
			2162	1686	476	
RY 91	72°25'45"	32°00'16"	2153	1798	355	
			2153	1784	369	
RY 92	72°26'12"	31°57'12"	2152	1750	402	
			2149	1793	356	
RY 93	72°26'23"	31°53'46"	2145	1765	380	*
	72°26'14"	31°52'00"	2135	1751	384	
RY 94	72°26'13"	31°50'14"	2124			
			2177			
RY 95	72°26'12"	31°46'41"	2110	1733	377	
			2107	1634	473	
RY 96	72°26'10"	31°43'07"	2104	1528	576	
			2102			
RY 97	72°26'10"	31°39'34"	2100			
			2098			
RY 98	72°26'05"	31°36'01"	2095	1896	199	
			2092	1764	328	
RY 99	72°25'57"	31°32'29"	2088	1779	309	
			2091			
RY100	72°25'49"	31°28'57"	2093			
			2085	1647	438	
RY101	72°25'38"	31°25'27"	2076	1536	540	
			2056	1526	530	
RY102	72°25'24"	31°21'47"	2036	1624	412	
			2030	1735	295	
RY103	72°25'11"	31°18'18"	2023	1844	179	
			2026			
RY104	72°25'03"	31°14'46"	2028			
			2024			
RY105	72°24'48"	31°11'18"	202●			
			2011			

【 R o u t e R Y 】			S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
RY106	72°24'36"	31°07'38"	2001		
			1994		
RY107	72°24'28"	31°04'06"	1987		
			1984	1995	-12
RY108	72°24'28"	31°00'33"	1980		
			1974		
RY109	72°24'29"	30°57'00"	1967		
			1967		
RY110	72°24'30"	30°53'27"	1967		(G12)*
			1967		
RY111	72°24'13"	30°50'02"	1966		
			1966		
RY112	72°23'59"	30°46'35"	1965		
			1965		
RY113	72°23'50"	30°43'04"	1964		
			1964		
RY114	72°23'42"	30°39'34"	1963		
			1964		
RY115	72°23'43"	30°36'02"	1964		
			1965		
RY116	72°23'47"	30°32'29"	1965	1723	242
			1966	1896	70
RY117	72°23'45"	30°28'57"	1967	1827	140
			1968	1850	118
RY118	72°23'47"	30°25'25"	1968	1981	-13
			1969	1985	-17
RY119	72°23'48"	30°21'52"	1969	1920	49
			1969	1843	126
RY120	72°23'42"	30°18'21"	1968	1797	171
			1968	1715	253
RY121	72°23'40"	30°14'48"	1967	1903	64
			1970	1595	375
RY122	72°23'47"	30°11'06"	1972	1820	152
			1974	1625	349
RY123	72°24'29"	30°08'24"	1975	1642	333 *
			1983	1739	244
RY124	72°25'26"	30°06'57"	1991	1768	223
			2008	1806	202
RY125	72°25'59"	30°03'59"	2024	2041	-17
			2031	2048	-17
RY126	72°26'31"	30°1 '0"	2038	2163	-125
			2034	2403	-370
RY127	72°27'06"	29°58'09"	2029		
			2025		
RY128	72°27'43"	29°55'08"	2020		
			2026		
RY129	72°28'19"	29°52'18"	2032	2287	-255
			2037		
RY130	72°28'57"	29°49'31"	2041		
			2041		
RY131	72°29'25"	29°46'13"	2041		
			2040	1387	653
RY132	72°29'52"	29°43'06"	2039	1952	87

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
			2049	2031	18	
RY133	72°30'19"	29°39'58"	2059	2045	14	
			2066	2093	-28	
RY134	72°30'32"	29°36'34"	2072	2156	-84	
			2074			
RY135	72°30'20"	29°33'08"	2076			(G13)*
			2043	2028	15	
RY136	72°30'11"	29°29'10"	2010	2099	-89	
			2064	2161	-98	
RY137	72°29'59"	29°25'13"	2117	2229	-112	
			2117	2166	-50	
RY138	72°29'37"	29°21'22"	2116	2168	-52	
			2111	2130	-20	
RY139	72°29'04"	29°17'45"	2105	2151	-46	
			2094	2154	-61	
RY140	72°28'27"	29°14'14"	2082	1988	94	
			2080	1921	159	
RY141	72°27'52"	29°10'41"	2077	1917	160	
			2071	1896	175	
RY142	72°27'08"	29°07'12"	2065	1805	260	
			2071	1835	236	
RY143	72°26'21"	29°04'05"	2077	1773	304	
			2066	1535	531	
RY144	72°25'34"	29°00'56"	2055	1495	560	
			2035	1417	618	
RY145	72°24'40"	28°58'15"	2014	1473	541	
			1989	1499	490	
RY146	72°23'44"	28°55'37"	1964	1558	406	
			1951	1611	340	
RY147	72°24'17"	28°58'09"	1937	1745	192	
			1938	1717	221	
RY148	72°23'45"	28°54'31"	1938	1816	122	
			1932	1792	140	*
RY149	72°23'12"	28°50'36"	1926	1850	76	
			1930	1983	-54	
RY150	72°22'54"	28°46'55"	1933	2102	-169	
			1942	2042	-101	
RY151	72°22'34"	28°43'16"	1950	2093	-143	
			1954	2077	-124	
RY152	72°22'09"	28°39'41"	1957	2166	-209	
			1959	2220	-262	
RY153	72°21'44"	28°36'06"	1960			
			1962	2382	-421	
RY154	72°21'21"	28°32'29"	1963	2258	-295	
			1961	2165	-204	
RY155	72°20'57"	28°28'53"	1959	2006	-47	
			1957	2092	-136	
RY156	72°20'31"	28°25'19"	1954	1960	-6	
			1945	1692	253	
RY157	72°20'05"	28°21'45"	1936	1448	488	
			1935	1352	583	
RY158	72°19'37"	28°18'14"	1934			
			1940			

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
RY159	72°19'10"	28°14'42"	1945	1693	252	
			1949	1381	568	
RY160	72°18'44"	28°11'09"	1952	901	1051	
			1948	758	1190	
RY161	72°18'16"	28°07'37"	1943	852	1091	
			1939	698	1241	
RY162	72°17'53"	28°04'01"	1935	419	1516	
			1924	311	1613	
RY163	72°17'03"	28°01'12"	1913	384	1529	
			1908	485	1423	
RY164	72°16'20"	27°58'05"	1903	628	1275	
			1909	682	1227	
RY165	72°15'40"	27°54'53"	1914	578	1336	
			1897	489	1408	
RY166	72°16'27"	27°56'44"	1879	313	1566	
			1862	220	1642	*
RY167	72°15'25"	27°56'38"	1845			
			1810			
RY168	72°14'26"	27°56'25"	1775			
			1755			
RY169	72°13'12"	27°56'32"	1734			
			1707			
RY170	72°11'57"	27°56'12"	1680			
			1674			
RY171	72°10'46"	27°55'02"	1668			
			1658			
RY172	72°09'34"	27°53'58"	1648			
			1640			
RY173	72°08'22"	27°52'29"	1632			
			1628			
RY174	72°07'10"	27°51'26"	1624			
			1619			
RY175	72°07'44"	27°51'58"	1615			*
			1604			
RY176	72°06'39"	27°51'18"	1593			
			1584			
RY177	72°05'43"	27°49'23"	1575			
			1576			
RY178	72°04'40"	27°49'15"	1577			
			1560			
RY179	72°03'38"	27°49'56"	1543			
			1525			
RY180	72°02'24"	27°49'26"	1508			
			1498			
RY181	72°01'32"	27°47'29"	1488			
			1462			
RY182	72°00'38"	27°45'54"	1436			
			1399			
RY183	71°59'39"	27°46'29"	1362			
			1355			
RY184	71°58'37"	27°46'06"	1348			
			1345			
RY185	71°57'45"	27°45'17"	1341			

【 R o u t e R Y 】			S.E.:Surface Elevation	I.T.:Ice Thickness	B.E.:Bedrock Elevation
			1337		
RY186	71° 57' 46"	27° 41' 48"	1332		
			1332		
RY187	71° 57' 27"	27° 38' 28"	1331		
			1342		
RY188	71° 56' 28"	27° 37' 03"	1353		
			1350		
RY189	71° 55' 31"	27° 35' 17"	1346		
			1346		
RY190	71° 54' 31"	27° 34' 08"	1346		
			1327		
RY191	71° 53' 35"	27° 32' 17"	1308		
			1302		
RY192	71° 52' 41"	27° 30' 14"	1290		
			1265		
RY193	71° 51' 48"	27° 28' 04"	1240		
			1224		
RY194	71° 50' 53"	27° 26' 08"	1208		
			1198		
RY195	71° 50' 03"	27° 23' 45"	1188		
			1177		
RY196	71° 49' 11"	27° 21' 35"	1166		
			1161		
RY197	71° 48' 08"	27° 20' 30"	1156		
			1149		
RY198	71° 47' 11"	27° 18' 36"	1142		
			1130	525	605
RY199	71° 46' 23"	27° 15' 42"	1127	363	764
			1124	372	752
RY200	71° 45' 45"	27° 12' 51"	1124	358	766
			1127	490	637
RY201	71° 45' 06"	27° 10' 01"	1118	679	439
			1099	441	658
RY202	71° 44' 28"	27° 07' 11"	1081	980	101
			1075	656	419
RY203	71° 43' 49"	27° 04' 21"	1066	699	367
			1061	946	115
RY204	71° 43' 01"	27° 01' 57"	1054	1073	-19
			1043	1013	30
RY205	71° 42' 08"	26° 59' 51"	1025	1070	-45
			1009	1295	-286
RY206	71° 41' 10"	26° 58' 10"	999	1057	-58
			991	1000	-9
RY207	71° 40' 11"	26° 56' 33"	994	849	145
			961	596	365
RY208	71° 39' 45"	26° 53' 21"	933	670	263
			926	863	63
RY209	71° 39' 22"	26° 50' 29"	883	868	15
			895	948	-53
RY210	71° 38' 55"	26° 47' 18"	900	1140	-240
			898	1300	-402
RY211	71° 38' 28"	26° 44' 08"	891	1196	-305
			877	1266	-389

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation			
RY212	71°38'04"	26°40'55"	859	1275	-416	
			848	1325	-477	
RY213	71°37'41"	26°37'41"	849	1131	-282	
			843	822	21	
RY214	71°37'17"	26°34'27"	822	768	54	
			811	780	31	
RY215	71°36'53"	26°31'14"	808	809	-1	
			819	800	19	
RY216	71°36'25"	26°28'06"	817	806	11	
			817	797	20	
RY217	71°35'57"	26°24'59"	839	860	-21	
			842	1331	-489	
RY218	71°35'51"	26°21'49"	851	1264	-413	*
			857	1247	-390	
RY219	71°35'03"	26°18'40"	857	1206	-349	
			865	1159	-294	
RY220	71°34'38"	26°15'28"	870	1132	-262	
			829	1162	-333	
RY221	71°34'12"	26°12'18"	835	1243	-408	
			826	1259	-433	
RY222	71°33'45"	26°08'58"	813	1183	-370	
			799	1079	-280	
RY223	71°33'19"	26°05'48"	799	1074	-275	
			796	1187	-391	
RY224	71°33'09"	26°02'09"	785	1391	-606	
			774	1436	-662	
RY225	71°32'58"	25°59'01"	785	1410	-625	
			785	1377	-592	
RY226	71°32'49"	25°55'38"	799	1377	-578	
			824	1361	-537	
RY227	71°32'37"	25°52'15"	857	1400	-543	
			865	1352	-487	
RY228	71°32'49"	25°49'07"	851	1229	-378	
			846	1041	-195	
RY229	71°32'40"	25°45'44"	832	994	-162	
			837	769	68	
RY230	71°32'30"	25°42'20"	810	813	-3	
			813	866	-53	
RY231	71°32'22"	25°38'57"	826	982	-156	
			843	893	-50	
RY232	71°32'35"	25°35'35"	840	937	-97	*
			840	876	-36	
RY233	71°32'06"	25°32'09"	840	889	-49	
			841	888	-47	
RY234	71°32'02"	25°28'44"	844	887	-43	
			844	968	-124	
RY235	71°31'51"	25°25'21"	845	808	37	
			848	847	1	
RY236	71°31'41"	25°21'59"	850	983	-133	
			852	927	-75	
RY237	71°31'33"	25°18'35"	853	1015	-162	
			858	991	-133	
RY238	71°31'25"	25°15'06"	859	1088	-229	

【 R o u t e R Y 】			S.E.:Surface Elevation I.T.:Ice Thickness B.E.:Bedrock Elevation		
			859	1018	-159
RY239	71°31'16"	25°11'47"	859	933	-74
			859	957	-98
RY240	71°31'08"	25°08'24"	861	960	-99
			860	959	-99
RY241	71°31'00"	25°05'00"	860	1013	-153
			859	1049	-190
RY242	71°30'53"	25°01'36"	860	1158	-298
			860	1290	-430
RY243	71°30'47"	24°58'12"	860	1312	-452
			860	1285	-425
RY244	71°30'41"	24°54'48"	863	1265	-402
			866	1192	-326
RY245	71°30'33"	24°51'10"	868	1060	-192
			867	698	169
RY246	71°30'26"	24°48'01"	866	543	323
			869	525	344
RY247	71°30'19"	24°44'37"	874	661	213
			873	996	-123
RY248	71°30'11"	24°41'13"	868	773	95
			863	460	403
RY249	71°30'05"	24°37'49"	864	1004	-140
			866	1169	-303
RY250	71°29'59"	24°34'25"	868	1163	-295
			864	1177	-313
RY251	71°29'53"	24°31'01"	863	1179	-316
			864	1168	-304
RY252	71°29'48"	24°27'37"	864	1171	-307
			863	1149	-286
RY253	71°29'42"	24°24'13"	863	989	-126
			864	1469	-605
RY254	71°29'36"	24°20'49"	867	990	-123
			870	1329	-459
RY255	71°29'29"	24°17'26"	869	759	110
			874	913	-39
RY256	71°29'47"	24°14'29"	881	936	-55
			889	1036	-147
RY257	71°30'29"	24°11'58"	902	589	313
			905	497	408
RY258	71°31'12"	24°09'28"	917	550	367
			930	395	535
	71°31'34"	24°08'17"	931		ASUKA CAMP

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e L 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
L 0	70° 27' 15"	23° 53' 22"	196	534 487	-338	*
L 1	70° 27' 49"	23° 53' 24"	216	561 561	-345	
L 2	70° 28' 23"	23° 53' 25"	230	588 564	-358	
L 3	70° 28' 56"	23° 53' 27"	237	584 575	-347	
L 4	70° 29' 30"	23° 53' 28"	244	589 580	-345	
L 5	70° 30' 04"	23° 53' 30"	252	615 586	-363	
L 6	70° 30' 38"	23° 53' 32"	258	597 590	-339	
L 7	70° 31' 12"	23° 53' 34"	265	616 606	-351	
L 8	70° 31' 46"	23° 53' 35"	270	634 618	-364	
L 9	70° 32' 20"	23° 53' 37"	275	633 614	-358	
L 10	70° 32' 54"	23° 53' 39"	275	645 630	-370	
L 11	70° 33' 28"	23° 53' 41"	280	645 636	-365	
L 12	70° 34' 01"	23° 53' 43"	281	636 633	-355	
L 13	70° 34' 35"	23° 53' 45"	279	614 608	-335	
L 14	70° 35' 09"	23° 53' 47"	286	655 688	-369	
L 15	70° 35' 43"	23° 53' 48"	286	719 726	-433	
L 16	70° 36' 17"	23° 53' 50"	288	754 740	-466	
L 17	70° 36' 51"	23° 53' 52"	283	782 758	-499	
L 18	70° 37' 25"	23° 53' 54"	287	776 763	-489	
L 19	70° 37' 59"	23° 53' 56"	285	799 757	-514	
L 20	70° 38' 32"	23° 53' 58"	288	775 741	-487	
L 21	70° 39' 06"	23° 54' 00"	292	771 743	-479	
L 22	70° 39' 40"	23° 54' 03"	295	720 703	-425	
L 23	70° 40' 14"	23° 54' 04"	296	747 739	-451	
L 24	70° 40' 48"	23° 54' 06"	297	738 714	-441	

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e L 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
L 25	70°41'22"	23°54'09"	300	719	-419	
				701		
L 26	70°41'56"	23°54'10"	299	708	-409	
				677		
L 27	70°42'30"	23°54'12"	303	686	-383	
				670		
L 28	70°43'04"	23°54'15"	302	675	-373	
				670		
L 29	70°43'38"	23°54'17"	310	676	-366	
				670		
L 30	70°44'12"	23°54'19"	312	690	-378	
				675		
L 31	70°44'46"	23°54'21"	315	694	-379	
				675		
L 32	70°45'20"	23°54'23"	319	698	-379	
				679		
L 33	70°45'54"	23°54'26"	323	702	-379	
				688		
L 34	70°46'28"	23°54'28"	330	708	-378	
				686		
L 35	70°47'01"	23°54'31"	336	709	-373	
				693		
L 36	70°47'35"	23°54'33"	341	708	-367	
				704		
L 37	70°48'09"	23°54'35"	347	720	-373	
				721		
L 38	70°48'43"	23°54'38"	351	730	-379	
				719		
L 39	70°49'17"	23°54'40"	357	737	-380	
				722		
L 40	70°49'51"	23°54'43"	365	746	-381	
				745		
L 41	70°50'25"	23°54'45"	368	748	-380	
				745		
L 42	70°50'59"	23°54'48"	375	753	-378	
				760		
L 43	70°51'33"	23°54'50"	383	764	-381	
				756		
L 44	70°52'07"	23°54'53"	388	772	-384	
				763		
L 45	70°52'40"	23°54'56"	394	780	-386	
				781		
L 46	70°52'30"	23°54'57"	400	788	-388	
				763		
L 47	70°52'50"	23°54'57"	409	803	-394	
				794		*
L 48	70°53'13"	23°54'58"	418	818	-400	
				809		
L 49	70°53'46"	23°54'59"	423	809	-386	
				789		

【 R o u t e L 】

S.E.:Surface Elevation

I.T.:Ice Thickness

B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
L 50	70°54'18"	23°55'01"	434	805 787	-371	
L 51	70°54'51"	23°55'02"	438	812 801	-374	
L 52	70°55'24"	23°55'04"	443	820 830	-377	
L 53	70°55'57"	23°55'06"	452	819 788	-367	
L 54	70°56'29"	23°55'08"	456	812 786	-356	
L 55	70°57'02"	23°55'10"	467	832 807	-365	
L 56	70°57'35"	23°55'11"	472	846 842	-374	
L 57	70°58'08"	23°55'13"	480	859 855	-379	
L 58	70°58'41"	23°55'15"	483	866 847	-383	
L 59	70°59'14"	23°55'17"	490	873 847	-383	
L 60	70°59'46"	23°55'19"	496	878 876	-382	
L 61	71°00'19"	23°55'21"	501	876 863	-375	
L 62	71°00'52"	23°55'23"	509	877 853	-368	
L 63	71°01'25"	23°55'24"	512	867 843	-355	
L 64	71°01'58"	23°55'26"	522	864 860	-342	
L 65	71°02'30"	23°55'28"	529	889 895	-360	
L 66	71°02'03"	23°55'30"	533	910 910	-377 *	
L 67	71°03'36"	23°55'32"	538	901 893	-363	
L 68	71°04'09"	23°55'34"	547	896 886	-349	
L 69	71°04'42"	23°55'37"	557	949 989	-392	
L 70	71°05'15"	23°55'39"	561	995 991	-434	
L 71	71°05'48"	23°55'41"	567	1026 1060	-459	
L 72	71°06'21"	23°55'43"	570	1054 1060	-484	
L 73	71°06'54"	23°55'45"	577	1051 1029	-474	
L 74	71°07'26"	23°55'47"	585	1049 1057	-464	

【Route L】 S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
L 75	71°07'59"	23°55'49"	585	1002 954	-417	
L 76	71°08'31"	23°55'51"	595	965 945	-370	
L 77	71°09'04"	23°55'53"	605	1007 975	-402	
L 78	71°09'37"	23°55'56"	609	1042 1002	-433	
L 79	71°10'10"	23°55'58"	610	980 909	-370	
L 80	71°10'43"	23°56'00"	619	926 859	-307	
L 81	71°11'15"	23°56'03"	636	845 883	-209	
L 82	71°11'48"	23°56'05"	643	966 954	-323	
L 83	71°12'21"	23°56'08"	647	979 931	-332	
L 84	71°12'54"	23°56'10"	654	921 851	-267	
L85	71°13'27"	23°56'12"	668	972 1016	-304	
L 86	71°14'00"	23°56'15"	681	1023 1034	-342	
L 87	71°14'32"	23°56'17"	691	1099 1187	-408	
L 88	71°15'05"	23°56'20"	697	1255 1278	-558	
L 89	71°15'38"	23°56'22"	698	1282 1251	-584	
L 90	71°16'11"	23°56'25"	695	1245 1133	-550	
L 91	71°16'44"	23°56'27"	701	1002 1000	-301	
L 92	71°17'16"	23°56'30"	719	1040 1141	-321	
L 93	71°17'49"	23°56'33"	724	1215 1228	-491	
L 94	71°18'22"	23°56'35"	726	1179 1088	-453	
L 95	71°18'55"	23°56'38"	733	1219 1265	-486	
L 96	71°19'27"	23°56'40"	734	1326 1322	-592	
L 97	71°20'00"	23°56'43"	739	1323 1259	-584	
L 98	71°20'33"	23°56'45"	742	1234 1262	-492	
L 99	71°20'50"	23°56'48"	751	1289 1343	-538	

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route L】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
L100	71°21'06"	23°56'48"	756	1388	-632	*
				1435		
L101	71°21'37"	23°57'22"	759	1454	-695	
				1468		
L102	71°22'09"	23°57'56"	760	1391	-631	
				1369		
L103	71°22'40"	23°58'31"	761	1346	-585	
				1298		
L104	71°23'11"	23°59'05"	767	1240	-473	
				1196		
L105	71°23'43"	23°59'40"	775	1125	-350	
				1016		
L106	71°24'14"	24°00'14"	783	928	-145	
				1043		
L107	71°24'45"	24°00'48"	785	1198	-413	
				1160		
L108	71°25'17"	24°01'23"	792	989	-197	
				974		
L109	71°25'48"	24°01'57"	797	1180	-383	
				1232		
L110	71°26'19"	24°02'32"	793	1230	-437	
				932		
L111	71°26'51"	24°03'06"	798	888	-90	
L112	71°27'23"	24°03'40"	811	1327	-516	
				726		
L113	71°27'54"	24°04'15"	819	589	230	
				341		
L114	71°28'25"	24°04'50"	832	406	426	
				436		
L115	71°28'57"	24°05'24"	848	477	371	
				531		
L116	71°29'28"	24°05'59"	863			
L117	71°30'00"	24°06'33"	871			
L118	71°30'31"	24°07'08"	881			
L119	71°31'02"	24°07'43"	902			
L120	71°31'20"	24°08'17"	921			
L121	71°31'34"	24°08'17"	931			Asuka Camp*

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route A, B】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A 0	71°31'34"	24°8'17"	931			Asuka Camp*
A 1	71°32'2"	24°7'26"				
A 2	71°32'30"	24°6'35"	930			
A 3	71°32'58"	24°5'44"				
A 4	71°33'26"	24°4'53"	940			
A 5	71°33'54"	24°4'2"				
A 6	71°34'23"	24°3'11"	950			
A 7	71°34'51"	24°2'20"				
A 8	71°35'19"	24°1'29"	970			
A 9	71°35'47"	24°0'38"				
A 10	71°36'15"	23°59'48"	1000			
A 11	71°36'43"	23°58'57"				
A 12	71°37'12"	23°58'6"	1009			
A 13	71°37'40"	23°57'15"				
A 14	71°38'8"	23°56'23"	1029			
A 15	71°38'36"	23°55'32"				
A 16	71°39'4"	23°54'41"	1059			
A 17	71°39'32"	23°53'50"				
A 18	71°40'1"	23°52'59"	1069			
A 19	71°40'29"	23°52'8"				
A 20	71°40'57"	23°51'17"	1079			
A 21	71°41'25"	23°50'26"				
A 22	71°41'53"	23°49'34"	1098			
A 23	71°42'22"	23°48'43"				
A 24	71°42'50"	23°47'52"	1118			
A 25	71°43'18"	23°47'1"				
A 26	71°43'46"	23°46'9"	1138			
A 27	71°44'14"	23°45'18"				
A 28	71°44'42"	23°44'27"	1148			
A 29	71°45'11"	23°43'35"				
A 30	71°45'39"	23°42'44"	1168			
A 31	71°46'7"	23°41'53"				
A 32	71°46'35"	23°41'1"	1168			
A 33	71°47'3"	23°40'10"				
A 34	71°47'31"	23°39'18"	1171			
A 35	71°48'0"	23°38'27"				
A 36	71°48'28"	23°37'35"	1217			
A 37	71°48'56"	23°36'44"				
A 38	71°49'24"	23°35'52"	1237			
A 39	71°49'52"	23°35'1"				
A 40	71°50'21"	23°34'9"	1227			
B 1	71°50'43"	23°32'54"				
B 2	71°51'6"	23°31'39"	1237			
B 3	71°51'29"	23°30'25"				
B 4	71°51'52"	23°29'10"	1266			
B 5	71°52'15"	23°27'55"				
B 6	71°52'38"	23°26'40"	1256			
B 7	71°53'1"	23°25'25"				
B 8	71°53'24"	23°24'10"	1296			
B 9	71°53'47"	23°22'54"				

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route A, B】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
B 10	71°54'10"	23°21'39"	1296			
B 11	71°54'31"	23°20'21"				
B 12	71°54'53"	23°19' 3"	1296			
B 13	71°55'15"	23°17'44"				
B 14	71°55'37"	23°16'26"	1316			
B 15	71°55'59"	23°15' 8"				
B 16	71°56'21"	23°13'49"	1325			
B 17	71°56'43"	23°12'31"				
B 18	71°57' 5"	23°11'12"	1355			
B 19	71°57'27"	23° 9'54"				
B 20	71°57'49"	23° 8'35"	1355			
B 21	71°58'10"	23° 7'17"				
B 22	71°58'32"	23° 5'58"	1415			
B 23	71°58'54"	23° 4'39"				
B 24	71°59'16"	23° 3'21"	1395			
B 25	71°59'38"	23° 2' 2"				
B 26	72° 0' 0"	23° 0'43"	1414			
A 70	72° 0'13"	22°59'55"	1434			
A 71	72° 0'18"	22°58' 9"				
A 72	72° 0'24"	22°56'23"	1444			
A 73	72° 0'45"	22°55' 2"	1460			*
A 73	72° 1'24"	22°54'20"				73'
A 74	72° 1'23"	22°53'25"	1470			
A 75	72° 1'24"	22°51'40"				
A 76	72° 1'25"	22°49'54"	1503			
A 77	72° 1'26"	22°48' 8"				
A 78	72° 1'27"	22°46'22"	1556			
A 79	72° 1'28"	22°44'36"				
B 36	72° 1'13"	22°44' 4"	1561			*
B 37	72° 0'44"	22°43' 4"				
B 38	72° 0'16"	22°42' 5"	1545			
B 39	71°59'49"	22°41' 7"				
B 40	71°59'21"	22°40' 8"	1529			
B 41	71°58'54"	22°39' 9"				
B 42	71°58'26"	22°38'10"	1493			
B 43	71°57'59"	22°37'12"				
B 44	71°57'31"	22°36'13"	1497			
B 45	71°57' 4"	22°35'14"				
B 46	71°56'36"	22°34'16"	1481			
B 47	71°56' 9"	22°33'17"				
B 48	71°55'42"	22°32'19"	1405			*
B 49	71°55'15"	22°31'14"				
B 50	71°54'50"	22°30'10"	1406			
B 51	71°55' 9"	22°28'42"				
B 52	71°55'28"	22°27'15"	1417			
B 53	71°55'47"	22°25'47"				
B 54	71°56' 6"	22°24'20"	1438			
B 55	71°56'25"	22°22'53"				
B 56	71°56'45"	22°21'25"	1429			
B 57	71°57' 4"	22°19'58"				

S.E.: Surface Elevation
 I.T.: Ice Thickness
 B.E.: Bedrock Elevation
 【Route A. B】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
B 58	71°57'23"	22°18'30"	1450			
B 59	71°57'42"	22°17' 2"				
B 60	71°58' 1"	22°15'35"	1461			
B 61	71°58'20"	22°14' 7"				
B 62	71°58'40"	22°12'40"	1462			
B 63	71°58'59"	22°11'12"				
B 64	71°59'18"	22° 9'44"	1453			
B 65	71°59'37"	22° 8'17"				
B 66	72° 0' 9"	22° 8'13"	1444			
B 67	72° 0'42"	22° 8'10"				
B 68	72° 1'14"	22° 8' 7"	1425			
B 69	72° 1'47"	22° 8' 3"				
B 70	72° 2'19"	22° 8' 0"	1436			
B 71	72° 2'52"	22° 7'57"				
B 72	72° 3'24"	22° 7'53"	1527			
B 73	72° 3'57"	22° 7'50"				
B 74	72° 4'29"	22° 7'47"	1529			
B 75	72° 5' 2"	22° 7'43"				
B 76	72° 5'34"	22° 7'40"	1550			
B 77	72° 6' 7"	22° 7'37"				
B 78	72° 6'39"	22° 7'33"	1561			
B 79	72° 7'11"	22° 7'30"				
B 80	72° 7'44"	22° 7'27"	1582			
B 81	72° 8'16"	22° 7'23"				
B 82	72° 8'49"	22° 7'31"	1663			
B 83	72° 9'21"	22° 7'39"				
B 84	72° 9'53"	22° 7'46"	1684			
B 85	72°10'26"	22° 7'54"				
B 86	72°10'58"	22° 8' 2"	1685			
B 87	72°11'30"	22° 8' 9"				
B 88	72°12' 2"	22° 8'17"	1686			
B 89	72°12'35"	22° 8'25"				
B 90	72°13' 7"	22° 8'32"	1717			
B 91	72°13'39"	22° 8'40"				
B 92	72°14'12"	22° 8'48"	1748			
B 93	72°14'44"	22° 8'56"				
B 94	72°15'16"	22° 9' 3"	1749			
B 95	72°15'48"	22° 9'11"				
B 96	72°16'21"	22° 9'19"	1840			
B 97	72°16'53"	22° 9'27"				
B 98	72°17'25"	22° 9'34"	1851			
B 99	72°17'57"	22° 9'42"				
B100	72°18' 0"	22°11'24"	1842			
B101	72°18' 2"	22°13' 7"				
B102	72°18' 5"	22°14'49"	1843			
B103	72°18' 7"	22°16'32"				
B104	72°18'10"	22°18'14"	1844			
B105	72°18'12"	22°19'57"				
B106	72°18'15"	22°21'39"	1845			
B107	72°18'17"	22°23'22"				

S.E.:Surface Elevation
 I.T.:Ice Thickness
 B.E.:Bedrock Elevation
 【Route A, B】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
B108	72°18'43"	22°24'24"	1816			
B109	72°19' 8"	22°25'26"				
B110	72°19'10"	22°27' 8"	1818			
B111	72°19' 5"	22°29' 0"				
B112	72°19' 1"	22°30'42"				
A118	72°19'13"	22°32' 7"	1820		*	
A119						
A120			1957			
A121						
A122			2045			
A123						
A124			2083			
A125						
A126			2151			
A127						
A128			2179			
A129	72°20'49"	22°49'34"				
A130	72°21'19"	22°50'15"	2186			
A130	72°21'45"	22°50'56"			130'	
A131	72°21'48"	22°51' 1"				
A132	72°22'18"	22°51'46"	2244			
A133	72°22'49"	22°52'13"				
A134	72°23'20"	22°52'44"	2282			
A135	72°23'49"	22°53'35"				
A136	72°24'20"	22°54' 3"	2310			
A137	72°24'51"	22°54'37"				
A138	72°25'21"	22°55'11"	2327			
A139	72°25'52"	22°55'46"				
A140	72°26'23"	22°56'20"	2325			
A141	72°26'11"	22°58' 0"				
A142	72°25'58"	22°59'41"	2343			
A143	72°25'46"	23° 1'21"				
A144	72°25'34"	23° 3' 2"	2371			
A145	72°25'22"	23° 4'42"				
A146	72°25'10"	23° 6'22"	2379			
A147	72°24'58"	23° 8' 3"				
A148	72°24'46"	23° 9'43"	2396			
A149	72°24'34"	23°11'23"				
A150	72°24'22"	23°13'4"	2404			
A151	72°24'10"	23°14'44"				
A152	72°23'58"	23°16'24"	2412			
A153	72°23'45"	23°18' 4"				
A154	72°23'33"	23°19'44"	2400			
A155	72°23'21"	23°21'25"				
A156	72°23' 9"	23°23' 5"	2398			
A157	72°22'57"	23°24'45"				
A158	72°22'45"	23°26'25"	2405			
A159	72°22'33"	23°28' 5"				
A160	72°22'21"	23°29'45"	2383			
A161	72°22' 9"	23°31'25"				

【Route A, B】 S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A162	72°21'57"	23°33'5"	2391			
A163	72°21'45"	23°34'45"				
A164	72°21'33"	23°36'25"	2389			
A165	72°21'21"	23°38'6"	2398			*
A166	72°21'8"	23°39'45"	2404			
A167	72°20'55"	23°41'25"				
A168	72°20'43"	23°43'5"	2396			
A169	72°20'30"	23°44'45"				
A170	72°20'18"	23°46'25"	2399			
A171	72°20'5"	23°48'5"				
A172	72°19'53"	23°49'45"	2391			
A173	72°19'40"	23°51'25"				
A174	72°19'28"	23°53'5"	2404			
A175	72°19'15"	23°54'44"				
A176	72°19'3"	23°56'24"	2416			
A177	72°18'50"	23°58'4"				
A178	72°18'38"	23°59'44"	2409			
A179	72°18'25"	24°1'24"				
A180	72°18'13"	24°3'3"	2381			
A181	72°18'23"	24°4'45"				
A182	72°18'33"	24°6'27"	2384			
A183	72°18'43"	24°8'8"				
A184	72°18'53"	24°9'50"	2336			
A185	72°18'42"	24°11'32"				
A186	72°18'52"	24°13'14"	2358			
A187	72°19'23"	24°13'45"	2370			*
A188	72°19'55"	24°13'49"	2387			
A189	72°20'28"	24°13'54"				
A190	72°21'0"	24°13'58"	2430			
A191	72°21'33"	24°14'3"				
A192	72°22'6"	24°14'8"	2484			
A193	72°22'38"	24°14'12"				
A194	72°23'11"	24°14'17"	2538			
A195	72°23'43"	24°14'22"				
A196	72°24'16"	24°14'26"	2552			
A197	72°24'48"	24°14'31"				
A198	72°25'21"	24°14'36"	2576			
A199	72°25'53"	24°14'41"				
A200	72°26'26"	24°14'45"	2589			
A201	72°26'59"	24°14'42"				
A202	72°27'31"	24°14'40"	2583			
A203	72°28'3"	24°14'37"				
A204	72°28'36"	24°14'34"	2607			
A205	72°29'8"	24°14'31"				
A206	72°29'41"	24°14'29"	2621			
A207	72°30'13"	24°14'26"				
A208	72°30'46"	24°14'23"	2625			
A209	72°31'18"	24°14'20"				
A210	72°31'51"	24°14'17"	2628			
A211	72°32'23"	24°14'15"				

S.E.:Surface Elevation
I.T.:Ice Thickness
B.E.:Bedrock Elevation

【 R o u t e A , B 】

Station	Location		S.E. (m)	I.T. (m)	B.E. (m)	Remarks (*JMR station)
	Latitude (S)	Longitude (E)				
A212	72°32'56"	24°14'12"	2642			
A213	72°33'28"	24°14'9"				
A214	72°34'1"	24°14'6"	2636			
A215	72°34'33"	24°14'3"				
A216	72°35'6"	24°14'1"	2655			
A216	72°35'19"	24°14'2"				216'
A217	72°35'38"	24°13'57"				
A218	72°36'10"	24°13'45"	2669			
A219	72°36'43"	24°13'33"				
A220	72°37'15"	24°13'20"	2677			
A221	72°37'47"	24°13'8"				
A222	72°38'19"	24°12'56"	2691			
A223	72°38'51"	24°12'44"				
A224	72°39'23"	24°12'31"	2695			
A225	72°39'56"	24°12'19"				
A226	72°40'28"	24°12'7"	2709			
A227	72°41'0"	24°11'55"				
A228	72°41'32"	24°11'43"	2713			
A229	72°42'4"	24°11'30"				
A230	72°42'36"	24°11'18"	2726			
A231	72°43'8"	24°11'1"				
A232	72°43'40"	24°10'44"	2740			
A233	72°44'13"	24°10'27"	2733			*
A234	72°44'43"	24°10'10"	2783			
A235	72°45'13"	24°10'45"				
A236	72°45'43"	24°11'20"	2806			
A237	72°46'17"	24°11'58"				
A238	72°46'47"	24°12'33"	2808			
A239	72°47'20"	24°13'11"				
A240	72°47'50"	24°13'46"	2831			
A241	72°48'21"	24°14'21"				
A242	72°48'51"	24°14'56"	2853			
A243	72°49'21"	24°15'31"				
A244	72°49'51"	24°16'6"	2846			
A245	72°50'22"	24°15'44"				
A246	72°50'52"	24°15'22"	2848			
A246	72°50'55"	24°15'24"	2849			*